



MIT  
COMMENCEMENT

20  
23

**MIT Commencement**  
Honoring the graduates of 2023

Thursday, June 1, 2023



Massachusetts  
Institute of  
Technology



## WELCOME

The Class of 2023 will join a great, global family of nearly 145,000 MIT alumni. Connected by shared experiences, our community is knit together by fundamental values and ideals: Excellence and curiosity. Openness and integrity. Creativity and boldness. A passion for solving tough problems. And a collective drive to use our strengths wisely to serve humanity.

Our new graduates will help create the future of our society—and our planet. But before they get started, we are delighted to join their families and friends in honoring their accomplishments at MIT.

Congratulations, Class of 2023!

A handwritten signature in black ink, appearing to read "Sally K".

Sally Kornbluth  
President

Photos  
Above: Christopher Harting  
Cover: Gretchen Ertl  
Back cover: Andy Ryan

COMMENCEMENT 2023

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## SCHOOL OF ARCHITECTURE AND PLANNING

### Bachelor of Science in Architecture

Course IV

*Department of Architecture*

**Natasha K. Hirt**

Also with a Major in Course XI  
(See also M.Eng., Course I-P)

**Karla Marcela Tamez**

**Michael J. Tan**

Minor in Japanese

**Isabel Margaret Waitz**

### Bachelor of Science in Art and Design

Course IV-B

*Department of Architecture*

**Audrey Gatta**

Also with a Major in Course XIV-2  
Minor in Spanish

**Felix Li**

**Karyn A. Nakamura**

**Jenny Zhang**

Minor in Computer Science

### Bachelor of Science in Planning

Course XI

*Department of Urban Studies and Planning*

**Melissa D. Hill**

Also with a Major in Course XV-1

**Trinity Jet Stallins**

Also with a Major in Course II-A  
Minor in Environment and Sustainability

**Eva A. Then**

### Bachelor of Science in Urban Science and Planning with Computer Science

Course XI-6

*Department of Urban Studies and Planning in conjunction with the Schwarzman College of Computing*

**Gabriel Carlo Alonzo Barrett**

Minor in Spanish

**Amelia Lee Doğan**

Also with a Major in Course XXI

**Meera A. B. Gregerson**

(February, 2023)

**Keili Alana Tucker**

## SCHOOL OF ENGINEERING

### Bachelor of Science in Engineering as recommended by the Department of Civil and Environmental Engineering

Course 1-ENG  
*Department of Civil and Environmental Engineering*

Aliai Dhol Acul  
Minor in Anthropology  
(February, 2023)

Dylan E. Brooks  
Also with a Major in Course VI-1  
Minor in Public Policy  
(February, 2023)

Vivian Cheng  
Minor in Computer Science

Emily Gao Fang  
Also with a Major in Course XI

Ava Vittoria Gillikin  
Minor in Management

Simone Sive Lassar  
Minor in Design  
(February, 2023)

Juliet Noriko Liao  
Minor in Computer Science

Catherine Suet-Ching Lu  
Minor in Computer Science

Emily Streiff  
Minor in Mathematics  
(February, 2023)

Karissa Jane Wenger  
Minor in Spanish  
(See also M.Eng., Course I-P)

Eric L. Wooten

### Bachelor of Science in Mechanical Engineering

Course II  
*Department of Mechanical Engineering*

Layal Barakat  
Minor in Design  
(February, 2023)

Michael J. Burgess, Jr.

Joshua A. Butler

Victor Arturo Diaz

Max Fan

Marcelo García

Levi S. Gershon  
(February, 2023)

Miller E. Geschke  
Minor in Energy Studies  
(February, 2023)

Delaney Kathleen Goetz

David E. Hernandez

Jessica N. Horowitz  
Minor in Environment and Sustainability  
Minor in Energy Studies  
(February, 2023)

Lambert Hu

Delace Linghui Jia

Rishi Tarun Kommalapati  
Minor in Comparative Media Studies

Cong Li

Yong Jie Lin  
Minor in Environment and Sustainability

Oliver Philip MacNeely  
(September, 2022)

Nina M. Morsch  
Minor in Theater Arts

Andrew J. Motz  
Minor in Music  
Minor in Biomedical Engineering

Megan Diẽm-Thùy Ngo  
Minor in Computer Science

Joshua Noguera

Benjamin J. Owen-Block

Frank J. Ozello III

Christina M. Patterson  
Also with a Major in Course XXI-M

Victor Paul Portmann

Jonhenry W. Poss

Theodore Joseph Rizo  
(February, 2023)

Joshua Samuel Rohrbaugh

Emma K. Rutherford  
Also with a Major in Course VIII  
Minor in Computer Science  
Minor in Design

Laura A. Schwendeman  
Minor in Biomedical Engineering

Carl Andrew Seelhoff  
Minor in Statistics and Data Science  
(February, 2023)

Henry F. Sobieszczyk

John B. Thomas  
(February, 2023)

Kyle B. Thompson

Valeriia V. Tyshchenko

Gabriella E. Ulloa	Natalie Amelia Cardenas	Sabrina Belén Hare Minor in Design
Kiet Vu	Christina Chen Minor in Management	Diane Heinle
Sylvia Elise Waft	Doreen L. Chin (February, 2023)	Steven Herrera
Carolina S. Warneyd Minor in Computer Science	Trevor D. Ching Minor in Design	Evan E. Hostetler Minor in Design (February, 2023)
Benjamin Thomas Weizer	Oliver Han Chinn	May J. Huang
Christian D. Williams (February, 2023)	Jinger Sia Chong Minor in Chinese Minor in Computer Science	Luis C. Ibarra
Luke H. Woodcock	Kwame S. Connell	Matthew J. Jens
Yufei Wu Minor in Theater Arts	Douglas D. Coughran IV	Mulan Jiang Minor in Spanish
<b>Bachelor of Science in Engineering as recommended by the Department of Mechanical Engineering</b> Course II-A <i>Department of Mechanical Engineering</i>	Christian J. de Weck Minor in German	Andrew P. Johnson Minor in Computer Science
Amanda Shayna Ahtec	Ambre E. Decilap Minor in Computer Science	Stephanie M. Khaguli
Aljazzy Alahmadi	Daymé Delgado (February, 2023)	Magnus-Tryggvi Adejogun Kosoko-Thoroddsen
Pablo Alejo-Aguirre Minor in Theater Arts	Sophia Morgan Sakamoto DiSabato	Sophia Alexis Leon Guerrero Also with a Major in Course XV-1
Danielle Nicole-Mako Allison Minor in Music	Chibuzor I. Eduzor (September, 2022)	Diane Y. Li Minor in Energy Studies (February, 2023)
Jordan Ambrosio	Tess M. Engst-Mansilla	Lillian A. Linden
Toluwalase Jennifer Asade Also with a Major in Course XXI-M	Rafael de Brito Lemes Fernandes	Carly Erin Long
Eduardo Cuauhtémoc Barrios	Katana Rain Finlason Minor in Energy Studies	Sophie Y. Longawa
Maheera Bawa Minor in Computer Science	Paige O. Forester	Joshua Paul Maldonado (February, 2023)
Jolie Sonia Bercow	Hannah Brielle Gazdus Also with a Major in Course XXI-W	John Cyril Malloy IV Minor in Finance
Quinn N. Bowers	Samuel John Gozelski (February, 2023)	Morgan Parker Mayborne Minor in Political Science
Caralyn Joy Briggs	Juliana Ceppas Green Also with a Major in Course IV-B	Devin C. McCabe
	Anna Y. Haddad	Chad Arthur Meier

**Anna Josephine Meurer**  
Minor in Entrepreneurship & Innovation  
Minor in Anthropology

**Andrea Montserrat Moncada**  
Minor in Management

**Joseph M. Ntiamo**

**Andrew T. Palleiko**  
Minor in Computer Science

**Seohyoung Park**  
Minor in Business Analytics

**Olivia L. Parsons**  
Minor in Management  
(February, 2023)

**Logan Kai Long Paterson**

**Yuka M. Perera**  
Minor in Management  
Minor in Energy Studies

**Christopher J. Perrino**

**Kassidy Iris Peterson**  
(February, 2023)

**William D. Reinkensmeyer**

**Viviana Rivera Martínez**

**Jacob A. Rodriguez**  
Minor in History

**Jesus Andres Rodriguez**  
Minor in Management

**Ronak Roy**  
Also with a Major in Course VI-1

**Nicholas A. Saavedra**  
(February, 2023)

**Ahmad A. Salman**

**Jason M. Salmon**

**Kaira M. Samuel**

**Jared Edward Scott**  
Minor in Computer Science

**Peter N. Scott**  
Minor in Energy Studies

**Kenan Hayel Sehnawi**

**Nicole M. Seman**

**Dylan Keith Patrick Sequeira**

**Sharmi M. Shah**

**Aquila V. Simmons**  
Also with a Major in Course XXI-M

**Kiely M. Smiga-McManus**  
(February, 2023)

**Mariia Smyk**

**Joshua Chanyoung Sohn**  
Also with a Major in Course VI-2

**Sophia D. Sonnert**  
Minor in German

**Bryan C. Sperry**  
Also with a Major in Course VIII

**Yushan Su**

**Emma Salome Suh**

**Sandra J. Villagrana**

**Christian Eduardo Viteri**  
Minor in Literature

**Kristopher Loi Vu**

**Taimor M. Williams**  
Minor in Economics

**Jack W. Yurkanin**

**Leonardo O. Zamora Yanez**

**Adam Redmond Zimmermann**

**Bachelor of Science in Materials**

**Science and Engineering**

Course III

*Department of Materials Science  
and Engineering*

**Sergio A. Arenas Hernández**

Minor in Mathematics  
Minor in Archeology and Materials

**Ningxin Chen**

Minor in Architecture

**Sara Vanessa Fernandez**

Minor in Entrepreneurship & Innovation  
Minor in Chinese

**Priya Ganesh**

Minor in Computer Science

**Perapat Pete Gatenil**

Minor in Mechanical Engineering

**Eyosias Adanegn Gebremeskel**

Also with a Major in Course VI-2

**Josh A. Glass**

**Carolina Gutierrez**

**Amena Khatun**

Minor in Environment and Sustainability  
Minor in Biomedical Engineering

**Steven H. Ngo**

(February, 2023)

**Sherrie X. Qian**

Minor in Chemistry  
Minor in Polymers and Soft Matter

**Samuel William Song**

Minor in Computer Science

**Bachelor of Science as**

**recommended by the**

**Department of Materials**

**Science and Engineering**

Course III-A

*Department of Materials Science  
and Engineering*

**Wesley Wade Block**

(February, 2023)

**Tess R. Buchanan**  
Minor in Urban Studies and Planning

**Shane J. Campbell**

**Eryn N. Cornelius**

**Dennis D. Gastel**

**Katherine Q. Guo**  
Also with a Major in Course IV-B

**Helen Hu**

**Arina D. Khotimsky**  
Minor in French  
Minor in Energy Studies

**Sheikh R. Mahmud**  
Minor in Computer Science

**Nyssa Raquel Miller**  
Minor in Theater Arts

**Gabrielle Ogata**

**Jocelyn Han Ting**  
(February, 2023)

**Bachelor of Science in Electrical Science and Engineering**  
Course VI-1  
*Department of Electrical Engineering and Computer Science in conjunction with the Schwarzman College of Computing*

**Pedro Leonardo Acosta De León**

**Jonas Nathaniel Cameron**  
Minor in Mechanical Engineering  
Minor in Economics

**Leif Charles Clark**  
Minor in Political Science

**Matthew J. Cox**  
Also with a Major in Course XVIII

**Liliana B. Edmonds**

**Roberto E. Garcia**  
(September, 2022)

**James A. Greer**

**Omozusi E. Guobadia**  
Also with a Major in Course IX

**Nicolas M. Hougarde**

**Raiphy Jerez**

**Joshua Lim**  
(February, 2023)

**Trinity W. Manuelito**

**Nishat Fahmida Prottyasha**  
Also with a Major in Course VIII  
Minor in Music

**Nikita Romanov**

**Abigail Margaret Shull**  
Also with a Major in Course VIII

**Jade Camille Sund**  
(February, 2023)

**Maxwell Tianchen Yun**  
Minor in Comparative Media Studies  
(February, 2023)

**Bachelor of Science in Electrical Engineering and Computer Science**

Course VI-2  
*Department of Electrical Engineering and Computer Science in conjunction with the Schwarzman College of Computing*

**Kojo Anane-Fordjour**  
Minor in Business Analytics

**Aklilu T. Aron**

**Nithya Sri Attaluri**  
(See also M.Eng., Course VI-P)

**Shelly Ben-David**  
Minor in Mechanical Engineering

**Grace Cai**  
(February, 2023)  
(See also M.Eng., Course VI-P)

**Alexander Blake Canepa**  
(February, 2023)

**Trevor Stephen Carter**  
Also with a Major in Course XXI-L

**Carlos M. Castillo Lozada**  
(February, 2023)

**Rachel H. Chae**  
Minor in Biomedical Engineering

**Harshal Chamdal**

**Anna Leigh Chau**

**Anika Cheerla**

**Susanna Chen**

**Gabriel Cojocaru**

**Abraham I. Corea Diaz**  
Minor in French

**Sarah M. Coston**

**Lucian K. Covarrubias**

**Kameron S. Dawson**

**Keegan Jaymes Deppe**

**Kaustubh Dighe**

**Jessica H. Ding**  
Also with a Major in Course XVIII

**Christopher K. Evagora**  
(February, 2023)

**Joseph W. Feld**  
Minor in Mathematics

**Annie Z. Feng**

**Reinaldo Figueroa Parra**

**John M. Flynn**  
Also with a Major in Course VIII

**Kevin Frans**  
(See also M.Eng., Course VI-P)

Portia Tatiana Ashley Gaitskell	Monica Q. Liu	Elaine Pham
Nina R. Gerszberg	Rachel Jing Liu	John Robert Poliniak
Fiona Jia-Yu Gillespie Minor in Mechanical Engineering	Mindy F. Long	Kevin Qian
Eric Gonzalez	Michael Lu Minor in Mechanical Engineering	Noah B. Raby
Jacob A. Hansen Also with a Major in Course IX	Mufaro Emmanuel Makiwa	Nathan Ramesh Also with a Major in Course II
Joshua I. Herrera	Samantha M. Maldonado Also with a Major in Course XVII	Rachel L. Raybuck Minor in Earth, Atmospheric, and Planetary Sciences
Marisa D. Hoosen	Braulio Martinez-Silva	Daniel Thomas Saavedra
Michael Angelo Iglesias	Catherine Mei Also with a Major in Course IX	Olivia A. Schirm
Aishah Muhammad Soriano Jones (February, 2023)	Katherine Grace Mohr	Spencer J. N. Shroff
Shreya S. Kapoor Minor in Entrepreneurship & Innovation	Neelambar Mondal	Olivia Carolina Siegel
Moulinrouge Fredrick Kaspar	Joseph P. Morales	Meenakshi Singh
Matthew T. Kearney Also with a Major in Course XXIV-1 (See also M.Eng., Course VI-P)	Erastus M. Murungi	Anjali Sinha
Hophin W. Kibona	James A. Nguyen	Lejla Skelic
Pranav Shankar Krishna Also with a Major in Course XXIV-2	Hao Ni	Emily Rosmery Sologuren
Albert Kwon	Alexandra C. Nwigwe Minor in Design	Andrei George Spiride
Aria Carlyse Kydd Also with a Major in Course XXI-M	Raveen Nzialani (February, 2023)	Alexandre Sarkis Studer
Hien M. Le	Armando D. Oliver Minor in Economics	Brady Michael Sullivan Minor in Mechanical Engineering
Seung Min Lee (September, 2022)	Rafael E. Olivera-Cintrón Minor in Mechanical Engineering Minor in Urban Studies and Planning	Ahmad W. Taka Minor in Physics
Pearl Li	Anthony C. Ou Also with a Major in Course VIII Minor in Mathematics	Grace Wen-Lian Tang (See also M.Eng., Course VI-P)
Cynthia Lin (February, 2023)	Aiden F. Padilla	Toomas Tennisberg
Amber Y. Liu	Kristen E. Palmer Minor in Chinese	Cem Arda Tepe
Kerlina Liu Minor in Writing	Ritik Patnaik	Irene Elisabeth Terpstra
		Muhammed Suleman S. Thaniana

**Shreya R. Thipireddy**  
(February, 2023)

**Tiffany Vu Tran**  
Minor in Mechanical Engineering

**Miguel A. Tulla Lizardi**  
Also with a Major in Course VIII

**Sophie Van Pelt**

**Fabian Adonnis Velasquez**  
Minor in Political Science

**Justice M. Vidal**  
Also with a Major in Course VIII  
Minor in Philosophy

**Diana Nguyen Voronin**

**Lachtu Vu**

**Archer D. Wang**  
Also with a Major in Course VIII

**Cindy X. Wang**  
Minor in Chinese

**Nieky Wang**  
Minor in Mechanical Engineering

**Wei-En Warren Wang**  
Also with a Major in Course VIII

**Alexander Gabriel Warren**

**Ryan J. Wilson**  
Also with a Major in Course XIV-2

**Adrianna Dominika Wojtyna**  
Also with a Major in Course XV-2

**Wendy S. Wu**  
Also with a Major in Course XVIII  
Minor in Biology  
Minor in Writing

**Izabella L. Zamora**  
Minor in Biology

**Julian Zanders**

**Jenny Lian Zhang**  
Minor in Mechanical Engineering

**Jessica J. Zhang**  
Minor in Writing

**Travis J. Ziegler**  
(See also M.Eng., Course VI-P)

**Bachelor of Science in Computer Science and Engineering**  
Course VI-3  
*Department of Electrical Engineering and Computer Science in conjunction with the Schwarzman College of Computing*

**Nishant Abhangi**  
Also with a Major in Course XVIII  
Minor in Physics  
Minor in Economics

**Muhammad Ashhad Alam**

**Ayesha Ali**  
Also with a Major in Course XIV-1

**Sabiyyah Ali**

**Kathleen Rose Allden**  
Also with a Major in Course XV-2

**Brett Z. Allen**  
(February, 2023)

**Shaden Naif K Alshammari**  
Also with a Major in Course XVIII

**Nicholas C. Anewalt**  
(February, 2023)

**Nkenna N. Aniedobe**  
Minor in Statistics and Data Science

**Ajay Arora**

**Riya Arora**  
(See also M.Eng., Course VI-P)

**Anna A. Arpaci-Dusseau**

**María Ascanio Aliño**  
Minor in French  
(See also M.Eng., Course VI-P)

**Angelos Assos**

**Sebastian Avila**  
(February, 2023)

**Kevin E. Awoufack**  
Minor in French

**Isabel Báez Alicea**  
Minor in Design

**Umang Bansal**  
Also with a Major in Course XIV-2  
Minor in Chinese

**Benjamin Leland Bartschi**

**George C. Bian**  
Minor in Economics

**Sam T. Boshar**  
Also with a Major in Course XVIII  
Minor in Brain and Cognitive Sciences

**Jeremiah H. Budiman**

**Cathy Cai**  
Also with a Major in Course XVIII

**Fiona X. Cai**  
Minor in Mathematics

**Miranda J. Cai**

**Hector M. Carrillo**  
Minor in Mathematics  
(February, 2023)

**Ashley Sima Casden**

**Enrique Casillas**

**Luis Yael Castro Polanco**

**Alvin Chan**  
Also with a Major in Course XV-2

**Martin Chan**

**Eileen Xin Yu Chau**  
Minor in Chinese

**Victor Chau**  
(February, 2023)

**Allen E. Chen**  
Also with a Major in Course XVIII

<b>Andrew Chen</b>	<b>Elvis N. Dyette</b>	<b>Manuel A. Guillen</b> Also with a Major in Course XVIII (September, 2022)
<b>Kevin Sun Chen</b>	<b>John Michael Eastman</b> Minor in Japanese	<b>Matthew Guo</b>
<b>Peiqi Chen</b>	<b>Emily J. Fan</b>	<b>Aneesh Gupta</b> Also with a Major in Course XVIII
<b>Robert Charles Chen</b> (February, 2023)	<b>Dean Fanggohans</b> Minor in Music (See also M.Eng., Course VI-P)	<b>Diptasri Gupta</b>
<b>Jisoo Cheong</b>	<b>Ashar Farooq</b>	<b>Sejal Gupta</b> Minor in Economics
<b>Sarah X. Chieng</b>	<b>Thomas J. Fisher</b>	<b>Aparna Ajit Gupte</b> Also with a Major in Course XVIII
<b>Shelley Jeeyoo Choi</b> Also with a Major in Course XV-2	<b>Jamie Fu</b>	<b>Nicholas F. Gustafson</b>
<b>Nicole Cybul</b>	<b>Zhi Wei Gan</b> Also with a Major in Course XVIII	<b>Naseem Hamed</b>
<b>Bilal Hekmat Daqqah</b> Also with a Major in Course XV-2	<b>Ixa Gani</b>	<b>Jerry Han</b> Also with a Major in Course XV-2
<b>Arman Dave</b> Minor in Mathematics (February, 2023)	<b>Benjamin Gao</b>	<b>Michelle J. He</b> Also with a Major in Course XXI-M
<b>Arthur Reiner Ventura De Belen</b>	<b>Trinity Gao</b> Minor in Finance Minor in French	<b>Adriano Hernandez</b> (February, 2023)
<b>Jeremiah R. DeGreeff</b> Minor in Mathematics	<b>Andrea L. Garcia</b> Minor in Mathematics	<b>Antony Hernandez Mendoza</b>
<b>Zachary R. Deng</b> Also with a Major in Course XVIII	<b>Daniel Garcia</b>	<b>Jay R. Hilton</b>
<b>Nisarg K. Dharia</b> Minor in Economics (February, 2023)	<b>Nicholas Gabriel Cwynar Garcia</b> (February, 2023)	<b>Alex Homma</b>
<b>Ileana Diaz</b> (September, 2022)	<b>Montserrat Garza</b> Also with a Major in Course XXI-M (February, 2023)	<b>Anson Ruikang Hu</b> (February, 2023)
<b>Juan F. Diaz</b>	<b>Erick K. Gbordzoe</b>	<b>Allen Huang</b>
<b>Allen Qian Ding</b>	<b>Milto M. Geleta</b>	<b>Katherine Mary Huang</b>
<b>Claire Dong</b> Also with a Major in Course XV-1	<b>Kuauhtemoc Salvador Gonzalez</b> (February, 2023)	<b>Neha S. Hulkund</b> Also with a Major in Course XVIII (See also M.Eng., Course VI-P)
<b>Samir Droubi</b>	<b>Vanessa Elizabeth Gonzalez</b>	<b>Lucas James Igel</b>
<b>Cynthia Ke Du</b> Also with a Major in Course XV-1 (February, 2023)	<b>Neha Govil</b> Also with a Major in Course XVIII	<b>Mark Jabbour</b> Also with a Major in Course XVIII
<b>Juan Sebastián Duitama Cortés</b>	<b>Cale Gregory</b>	<b>Adam P. Janicki</b>

<b>Kevin Jiang</b>	<b>Kelly Thien Lam</b>	<b>Jianna Liu</b>
<b>Caroline Linda Jin</b> Minor in Mathematics (February, 2023)	<b>Pedro D. Lantigua</b> (September, 2022)	<b>Katherine Liu</b> Minor in Mathematics
<b>Catherine Anne Johnson</b>	<b>Mary Lau</b> Minor in Mathematics	<b>Kyle Yijie Liu</b> (See also M.Eng., Course VI-P)
<b>Quincy T. Johnson</b>	<b>Nguyen Le</b>	<b>Richard R. Liu</b>
<b>Prabhakar Kafle</b>	<b>Jason J. Lee</b>	<b>Sabeen Imtiyaz Lohawala</b> Minor in Linguistics
<b>Miles Kaming-Thanassi</b>	<b>Samuel S. Lee</b> Minor in Mathematics	<b>David Lu</b> (See also M.Eng., Course VI-P)
<b>Gabriel A. Kammer</b> Minor in Mathematics (February, 2023)	<b>Tin Yau Lee</b>	<b>Edward P. Lu</b> Also with a Major in Course XVIII Minor in Economics
<b>Ahmed Katary</b>	<b>Amy Lei</b>	<b>Helen Lu</b> Also with a Major in Course XVIII
<b>Mahmoud W. Khalifa</b>	<b>Matthew Diarmuid Leonard</b> Minor in Physics	<b>Victor Luo</b> Also with a Major in Course XVIII
<b>Grace Kim</b>	<b>Alexandra S. Li</b>	<b>Maximo A. Machado</b>
<b>Ryan Micah Kim</b> Minor in Mathematics	<b>Alvin K. Li</b> Minor in Entrepreneurship & Innovation	<b>Calvin Michael Alan Maddox</b>
<b>Seok Hyeon Kim</b> Minor in Mathematics	<b>Jeff D. Li</b>	<b>David S. Magrefty</b>
<b>Anjalie Sonia Kini</b> Also with a Major in Course XIV-1 Minor in Mathematics	<b>Raymond B. Li</b> Also with a Major in Course VIII	<b>Natasha M. Maniar</b> Minor in Finance
<b>Naomi Kawira Kirimi</b> Minor in French	<b>Shengtong Li</b> Minor in Economics	<b>Sean Mann</b> (See also M.Eng., Course VI-P)
<b>Giorgi Kldiashvili</b> Minor in Economics	<b>Isaac C. Liao</b> Also with a Major in Course VIII	<b>Julian James Adeyemi Manyika</b> Also with a Major in Course XXIV-1 (February, 2023)
<b>Maanasa Kotha</b> (February, 2023)	<b>Joseph David Licht</b>	<b>Ivy Y. Mao</b> Minor in Economics Minor in Mathematics
<b>Aleksandar Krastev</b> (See also M.Eng., Course VI-P)	<b>Darren T. Lim</b>	<b>Jerry W. Mao</b> Also with a Major in Course XVIII
<b>Callie Elizabeth Kunz</b>	<b>Jason Lin</b>	<b>Megha Maran</b> Also with a Major in Course XV-2
<b>Michael K. Kuoch</b> Minor in Biology	<b>Raymond Lin</b> Minor in Mathematics	<b>Zoë Marschner</b> Also with a Major in Course XVIII
<b>Nurullah Giray Kuru</b> Also with a Major in Course XVIII	<b>Sharon Lin</b>	
<b>Ethan A. LaBelle</b>	<b>Annie Liu</b>	
	<b>Helen Xueyun Liu</b> Also with a Major in Course XV-2	

<b>Gustavo Aguiar Martins</b> Minor in Brain and Cognitive Sciences	<b>Troy P. Oliveira</b>	<b>Victor Rong</b> Also with a Major in Course XVIII Minor in Public Policy (See also M.Eng., Course VI-P)
<b>Matas Masy</b>	<b>Ryuta R. Ono</b> Minor in Brain and Cognitive Sciences	<b>Alex Sanchez</b>
<b>Jenna Marie McClellan</b>	<b>Nicholas J. Ortiz</b>	<b>Athena Sanchez</b>
<b>Kimberly F. McPherson</b> Minor in Spanish Minor in Design	<b>Anne Ouyang</b> (See also M.Eng., Course VI-P)	<b>Karissa Aitana Sanchez</b> Also with a Major in Course XXIV-2
<b>Frederick Mejia</b>	<b>Trudy E. Painter</b> Also with a Major in Comparative Media Studies	<b>Gerardo U. Segura</b>
<b>Praneet Mekala</b> (See also M.Eng., Course VI-P)	<b>Daniel Papacica</b>	<b>Andrew Sepúlveda</b> Minor in Music Technology
<b>Julie L. Meng</b> Minor in Brain and Cognitive Sciences Minor in Music	<b>Isabella Pedraza Pineros</b> Minor in Finance Minor in French	<b>Deniz Bilge Sert</b>
<b>Grant M. Miller</b> Minor in Mathematics (February, 2023)	<b>Katherine Virginia Pelton</b> Minor in Urban Studies and Planning	<b>Mohammed Shafim</b>
<b>Catalina Monsalve Rodriguez</b> Minor in Design	<b>Sergio Angel Perez</b>	<b>Kevin Z. Shao</b>
<b>Felipe Morales Osorio</b>	<b>Ian C. Pérez Collazo</b>	<b>Ishana A. Shastri</b> Minor in Mathematics
<b>Aleksandr Morozov</b>	<b>Trent J. Piercy</b>	<b>Yichuan Shi</b> Also with a Major in Course XVII
<b>Nolan N. Moy</b>	<b>McKinley M. Polen</b>	<b>Zhining Shi</b>
<b>Natalie Muradyan</b>	<b>Sebastián J. Portalatín Cortés</b>	<b>Jonathan P. Shoemaker</b> Also with a Major in Course VIII
<b>Anushka Manchanda Nair</b>	<b>Subha Nawer Pushpita</b> Also with a Major in Course XVIII	<b>Anjali Singh</b> Also with a Major in Course XVIII
<b>Haley M. Nakamura</b> Minor in Environmental Engineering Science	<b>Bryan Pyo</b> Minor in Mathematics	<b>Parul Singh</b>
<b>Mai Ngoc Nguyen</b>	<b>Benjamin Qi</b>	<b>Adam Zhun Hua Snowden</b>
<b>Nghi Hoàng Nguyẽn</b> Minor in French	<b>Alex Hong Quach</b>	<b>Richard P. Sollee III</b> Also with a Major in Course VIII
<b>Ngoc B. Nguyen</b>	<b>Erica Ward Radler</b>	<b>Shashvat Srivastava</b> Also with a Major in Course XVIII
<b>Thanh P. Q. Nguyen</b>	<b>Tejal V. Reddy</b>	<b>Benjamin Steffen</b>
<b>Marco Lu Nocito</b>	<b>James R. Richardson</b> Also with a Major in Course XVIII	<b>Nicole C. Stiles</b>
<b>Brian Ntanga</b>	<b>Michael Ashton Robinson</b>	<b>Andrew P. Stoddard</b> Minor in Management
	<b>Sebastián Ignacio Rodríguez</b> (February, 2023)	

<b>George W. Stultz</b> Also with a Major in Course XV-2	<b>Saaketh Vedantam</b> Also with a Major in Course XVIII Minor in Economics (See also M.Eng., Course VI-P)	<b>Arun Wongprommoon</b> Also with a Major in Course XXIV-2
<b>Jocelin Su</b> Also with a Major in Course XVIII (See also M.Eng., Course VI-P)	<b>Boris Velašević</b> Also with a Major in Course XVIII Minor in Economics	<b>Andrew S. Wu</b> Also with a Major in Course V Minor in Mathematics
<b>Vighnesh Subramaniam</b> Minor in Linguistics	<b>Daniela Velez</b>	<b>David H. Wu</b> (February, 2023)
<b>Anna T. Sun</b>	<b>Vanessa Vera</b> Minor in Japanese	<b>Hui Min Wu</b>
<b>Melinda M. Sun</b> Also with a Major in Course XVIII	<b>Linh T.M. Vo</b>	<b>Jasmine Wu</b>
<b>Michael C. Sutton</b> Minor in Chinese	<b>David A. Vulakh</b> (February, 2023)	<b>David T. Xiong</b> Also with a Major in Course VIII
<b>Malobika Fahmida Syed</b>	<b>Crystal Wang</b> Also with a Major in Course XIV-2 (February, 2023)	<b>Jessica Yulong Xu</b> Minor in Mathematics
<b>Matthias A. Takele</b>	<b>Emma Jordan Wang</b> Also with a Major in Course XVIII	<b>Erika Yang</b> Minor in Literature
<b>George Tang</b>	<b>Haijia Wang</b>	<b>Hanna Yang</b> Also with a Major in Course XVIII
<b>Sandra S. Tang</b> Minor in Design	<b>Jett Z. Wang</b>	<b>Jason Y. Yang</b> (February, 2023)
<b>Julius Liang-Li Tao</b> Minor in Mathematics	<b>Sean Wang</b> Also with a Major in Course XVIII Minor in Economics	<b>Jason Y. Ye</b> (September, 2022)
<b>Laena Tieng</b>	<b>Shih-Yu Wang</b>	<b>Marvin Zetina-Jimenez</b>
<b>Kevin Cao Tong</b> Also with a Major in Course XVIII	<b>Stanley Wang</b> Minor in Mathematics	<b>Allen J. Zhang</b> (February, 2023)
<b>Megi Topalli</b>	<b>Yuyuan Wang</b> Also with a Major in Course XXIV-2	<b>Angela Cao Zhang</b> Also with a Major in Course XVIII
<b>Gianna Nana Ama Boadi Torpey</b> Minor in French	<b>Dylan Weber</b>	<b>Angela Weilin Zhang</b> Minor in Anthropology
<b>Amani Toussaint</b>	<b>Jordan W. Wilke</b> Also with a Major in Course IX	<b>Angelina Zhang</b> Minor in Mathematics
<b>Raymond Tran</b> (February, 2023)	<b>Edmund D. Williams, Jr.</b> (February, 2023)	<b>Maggie Q. Zhang</b>
<b>Giorgi Tskhadadze</b> (February, 2023)	<b>Lola Carmel Wolf</b> Minor in Design	<b>Michael S. Zhang</b> Also with a Major in Course XVIII Minor in Physics
<b>Benjamin G. Urquhart</b>	<b>Madison Wong</b>	<b>Jenny Wu Zhao</b> Minor in Music Minor in Japanese
<b>Pranali Vani</b> Minor in Brain and Cognitive Sciences		
<b>Guillermo Vasquez</b>		

<b>Adam C. Zheng</b>	<b>Julia Graziella Contini</b> Minor in Economics	<b>Bachelor of Science in Computer Science, Economics, and Data Science</b> Course VI-14 <i>Department of Electrical Engineering and Computer Science in conjunction with the Schwarzman College of Computing</i>
<b>Yiming Zheng</b> Minor in Mathematics (See also M.Eng., Course VI-P)	<b>Brady J. Darby</b> Minor in Mathematics	<b>Eric Bell, Jr.</b>
<b>Howard N. Zhong</b> Also with a Major in Course XVIII Minor in Economics (See also M.Eng., Course VI-P)	<b>Daniel R. Gutierrez</b> (February, 2023)	<b>Jordan Andre Anthony Billings</b>
<b>Alice S. Zhu</b> Minor in Mathematics	<b>Hee Jae Hong</b>	<b>Kevin Bunn</b>
<b>Ophelia M. Zhu</b>	<b>Uzuki Horo</b> Also with a Major in Sci., Tech., & Society	<b>Kristina Y. Chen</b>
<b>Xiaoyang Zhuang</b> Also with a Major in Course VIII (September, 2022)	<b>Bridget Li</b> Minor in Economics	<b>Aaron K. Fuchs</b>
<b><u>Bachelor of Science in Artificial Intelligence and Decision Making</u></b> Course VI-4 <i>Department of Electrical Engineering and Computer Science in conjunction with the Schwarzman College of Computing</i>	<b>Katherine Seungjoo Lim</b>	<b>Lindsey C. Gambino</b> Also with a Major in Course XV-2
<b>Marlond G. Criollo</b> Minor in Music Technology	<b>Sherry Shu Yuh Nyeo</b> Minor in Management Minor in German	<b>Ananya L. Gurumurthy</b> Minor in Music
<b>Tahmid M. Jamal</b> Also with a Major in Course XVI Minor in Economics Minor in Mathematics	<b>Nten P. Nyiam</b> Minor in Mathematics	<b>Tyler D. Kim</b>
<b><u>Bachelor of Science in Computer Science and Molecular Biology</u></b> Course VI-7 <i>Department of Electrical Engineering and Computer Science in conjunction with the Schwarzman College of Computing</i>	<b>Mercy C. Oladipo</b>	<b>Shivani Konduru</b> Also with a Major in Course XV-3
<b>Amulya S. Aluru</b>	<b>Jillian Emma Parker</b>	<b>Sofie Elyse Kupiec</b> Minor in Business Analytics
<b>Caroline Bao</b> Minor in Music	<b>Jacob Shapiro</b> Minor in Literature	<b>Jason D. Lee</b> Also with a Major in Course XV-2
<b>Xi Chen</b>	<b>Eren C. Shin</b> Also with a Major in Course IX	<b>Jimin J. Lee</b>
	<b>Julia Situ</b> Minor in French	<b>Matthew Ethan Leonard</b>
	<b>Raina Win Yee Rachel Thomas</b>	<b>Alice Martynova</b>
	<b>Emma Pascale Tysinger</b> Minor in Economics	<b>Nicolas P. Minudri</b> Also with a Major in Course XV-3
	<b>Diane K. Zhang</b> Minor in Spanish	<b>Christina Marie Mirro</b> Minor in Mathematics
		<b>Dev P. Patale</b> (February, 2023)
		<b>Christopher W. Picard</b> Also with a Major in Course XV-2

<b>Elizabeth Popkov</b>	<b>Evan B. Moore</b>	<b>Pragati Krithika Muthukumar</b> Also with a Major in Course VII
<b>Francisco Rafael Proskauer Valerio</b>	<b>Hong Nguyen</b>	<b>Josephine Olaitan Nonyelum Oshodi</b>
<b>Kirsi Katherine Rajagopal</b> Minor in Mathematics	<b>Nigara Nizamidin</b>	<b>Christian Paolo Otero</b> Minor in Computer Science
<b>Federico Ramirez</b> Also with a Major in Course XXIV-2	<b>Duha Syar</b>	<b>Mideum Abraham Park</b> Minor in Chemistry
<b>Karyn Nicole Real</b> Also with a Major in Course XV-2	<b>Binette M. Wadda</b>	<b>Matthew Jonathan Sousa</b>
<b>Evan J. Schaefer</b> Also with a Major in Course XV-2	<b>Sandy Yang</b> Minor in Asian and Asian Diaspora Studies Minor in Energy Studies	<b>Bachelor of Science in Engineering as recommended by the Department of Chemical Engineering</b> Course X-ENG <i>Department of Chemical Engineering</i>
<b>Derek Shen</b>	<b>Victoria Y. Yang</b>	<b>Ololade Oreoluwa Abdulai</b> Also with a Major in Course XV-1
<b>Anne Jegeris Snyder</b>	<b>Kara Angie Zhang</b> (February, 2023)	<b>Maela Grace Hickling</b> Minor in Chemistry
<b>Jay A. Theriault</b> Also with a Major in Course XV-2	<b>Bachelor of Science in Chemical-Biological Engineering</b> Course X-B <i>Department of Chemical Engineering</i>	<b>Nicole Brianna Jacobsen</b>
<b>Nicole Bjerre Toft</b>	<b>Lauren Meredith Abrahamsen</b> Minor in Environment and Sustainability	<b>Liliana Jelu Reyes</b> Minor in Business Analytics
<b>Nina Yusi Wang</b> Also with a Major in Course XV-2	<b>Benjamin D. Burke</b>	<b>Anna Mai</b> Minor in Management
<b>Kailey Yang</b> Minor in Mathematics	<b>Grace Ann Carlson</b> Also with a Major in Course VII	<b>Lizi Maziashvili</b> Minor in Computer Science
<b>Miriam C. Zuo</b> Also with a Major in Course XVIII Minor in Business Analytics	<b>Stefan Damchevski</b> Also with a Major in Course XXI-G	<b>Dechen T. Rota</b>
<b>Bachelor of Science in Chemical Engineering</b> Course X <i>Department of Chemical Engineering</i>	<b>Dominique C. De Fiesta</b> Also with a Major in Course VII	<b>Daena A. Schuh</b>
<b>Seraphin Wing Castelino</b>	<b>Giselle Duque</b> Minor in Literature	<b>Hannah Marie Spilman</b> Minor in Environmental Engineering Science
<b>Jose Luis Gomez</b> Minor in Energy Studies	<b>Freya Edholm</b> Also with a Major in Course XVIII-C Minor in Chemistry	<b>Julia Grace Van Cleef</b> Minor in Computer Science
<b>Oscar Guardado Chacón</b> Also with a Major in Course XV-3	<b>Alexis L. Jones</b> (February, 2023)	<b>Julie Yu</b> Minor in Computer Science (February, 2023)
<b>Claire Aerim Kim</b> Minor in Environment and Sustainability	<b>Michelle Mercedes Mantilla</b>	
<b>Kevin Li</b>		

**Bachelor of Science in**  
**Aerospace Engineering**

Course XVI

*Department of Aeronautics and  
Astronautics*

**Frederick Henry Oladimeji Ajisafe, Jr.**  
Also with a Major in Course XXI-M

**Brooke Madison Bensche**  
Minor in Management

**Gabriella Lee Berrey**  
Minor in Spanish

**Jared Ray Boisvert**

**Jared Boyer**  
Minor in Chinese

**Robert L. Cato III**

**Matthew Hikaru Clingerman**

**Samuel Thomas Costa**  
Also with a Major in Course XVIII

**Morgan Ferguson**

**Frank Gonzalez**

**Ari Goodwin Grayzel**  
(February, 2023)

**Charlotte Hibdon Gump**  
Minor in Spanish

**Cameron Philip Hilman**

**Summer A. Hoss**

**Frederick Seidel Humm**

**William C. Kupiec**

**José A. Lavariega-Gómez**  
Minor in Statistics and Data Science

**Alexis Lepe**  
Minor in Russian and Eurasian Studies

**Steven Liu**

**Amira Malik**

**Joshua Thomas Malone**

**Andrew C. Manwaring**  
Minor in Computer Science

**Grace C. Mao**  
Minor in Mathematics

**Matthew J. McGillick**

**Matthew L. Mora**

**John M. Oswald**

**Alberto Matias Peña**

**John Conrad Pendergrast**  
Minor in Political Science

**Julian L. Powers**

**Jake T. Sonandres**  
Minor in Computer Science

**Kyle A. Sonandres**  
Minor in Computer Science

**Theodore George St Francis**  
Minor in Mechanical Engineering

**Emma Catherine Tauckus**

**Olivia Kathleen Tobin**

**Preston James Tower**

**Christopher E. Vargas**

**David von Wrangel**  
Also with a Major in Course VI-2

**Erina Yamaguchi**

**Kwadwo A. Yeboah-Asare, Jnr.**  
Minor in Computer Science

**Jawad Firas Yousef**

**Tai Zheng**

**Bachelor of Science in**  
**Engineering as recommended**  
**by the Department of**  
**Aeronautics and Astronautics**

Course XVI-ENG

*Department of Aeronautics and  
Astronautics*

**Naylah Sinclair Mathis Canty**  
Also with a Major in Course XI

**Lauren Anne Carethers**

**Luke Joseph Antonio de Castro**

**Yonatan Wesenyeleh Delelegn**  
Also with a Major in Course VI-2  
(February, 2023)

**Paarth V. Desai**

**Angel R. Gomez Cruz**

**Ethan M. Hammons**

**Mohamed A. Mohamed**  
Also with a Major in Course VI-2

**Joana N. Nikolova**

**Edward St. John Rivera**  
Also with a Major in Course VI-3

**Austen J. Roberson**  
Minor in Computer Science

**Akila Saravanan**  
Also with a Major in Course VI-9  
Minor in Writing

**Justin D. Schiavo**

**Blake T. Shepherd**

**Sienna Holly Williams**  
Minor in Computer Science

**Bachelor of Science in  
Biological Engineering**  
Course XX  
*Department of Biological  
Engineering*

**Marissa Lynn Abbott**  
Minor in Chemistry

**Soleh B. Anderlini**  
Minor in Environment and Sustainability

**Rami A. Bikdash**

**Selam Tadesse Bulti**

**Kira Reese Buttrey**  
Minor in Spanish  
Minor in Computer Science

**Lauren M. Castle**

**Anjali R. Chadha**  
Also with a Major in Course XXI-L

**Sophia W. Chen**

**Charles William Coffey III**  
Minor in Computer Science  
(February, 2023)

**Victor Michael Damptey**  
Minor in Spanish

**Haley Kanoelani Evile**  
Minor in Linguistics

**Daphne Alecia Faber**  
Minor in Spanish

**Haley Madison Fernandez**  
Minor in Computer Science

**Catherine Lynn Griffin**  
Minor in Computer Science

**Sophie J. Guo**  
Also with a Major in Course VI-2

**Melissa C. Hummel**

**Juan S. Ibarra Arriaga**  
Minor in Computer Science

**Stuti Khandwala**  
Also with a Major in Course VI-3  
Minor in Chemistry  
Minor in Economics

**Seung Hyun Kim**

**Sky Haneul Kim**  
Minor in Political Science

**Preeti Sai Parimala Krishnamani**  
Also with a Major in Course XV-1

**Marcos Labrado**

**Shirley Li**  
Minor in Computer Science

**Louise Gabrielle C. Lima**  
Minor in Brain and Cognitive Sciences  
Minor in Computer Science

**Kathleen Ruth Love**

**Emmeline Rose MacPherson**

**Chloe Valpangha McCreery**

**Kacper K. Migacz**

**Vainavi Mukkamala**  
Also with a Major in Course VI-2

**Bhuvna R. Murthy**

**Conrad Gregory Oakes**

**Lucia T. Padilla**  
Minor in German

**Veronica Marie Perdomo**

**Sarah E. Pertsemidis**

**Miriam L. Rittenberg**

**Reed Elizabeth Robinson**

**Isabella Grayce Salinas**  
Minor in Biology

**Laura Schmidt-Hong**

**Shruthi C. Shekar**  
Minor in Entrepreneurship & Innovation

**Seung Hyeon Shim**  
Minor in Chemistry

**Christina Ta**  
(February, 2023)

**Anru Tian**

**Abigail M. VanLonkhuyzen**

**Sangita Vasikaran**  
Minor in Design

**Kenneth J. Wei**  
Minor in Computer Science

**Jennifer L. Wen**  
Minor in Brain and Cognitive Sciences

**Veronica W. Will**

**Amber Elisabeth Williams**  
Also with a Major in Course VII

**Alexandra N. Wolff**

**Jennifer X. Xiong**

**Megan L. Xu**  
Minor in Earth, Atmospheric, and Planetary Sciences  
(February, 2023)

**Amy X. Zhong**  
Minor in Computer Science

**Julian Zulueta**  
Minor in History of Architecture, Art and Design

**Bachelor of Science in Nuclear  
Science and Engineering**

Course XXII

*Department of Nuclear Science and  
Engineering*

**Francisco Arellano, Jr.**

(February, 2023)

**Brendan C. Vaughan**

Minor in Economics

Minor in Energy Studies

**Bachelor of Science in  
Engineering as recommended  
by the Department of Nuclear  
Science and Engineering**

Course XXII-ENG

*Department of Nuclear Science and  
Engineering*

**Alexander B. Bookbinder**

Minor in Biology

Minor in Chinese

**Loukas L. Carayannopoulos**

(February, 2023)

(See also S.M., Course XXII)

**Jaron F. Cota**

Also with a Major in Course VIII

**Calvin James Cummings**

Minor in Mechanical Engineering

**Katelin Du**

**Zoe Lilah Fisher**

(See also S.M., Course XXII)

**Arthur Samuel Zangi**

## SCHOOL OF HUMANITIES, ARTS, AND SOCIAL SCIENCES

### Bachelor of Science in Economics

Course XIV-1

*Department of Economics*

**Theodore Kingston Black**

Also with a Major in Course XV-1

**Gina Choi**

(February, 2023)

**Hannah Kim**

Also with a Major in Course VI-2

### Bachelor of Science in Mathematical Economics

Course XIV-2

*Department of Economics*

**Sarah Rose Aaronsen**

### Bachelor of Science in Political Science

Course XVII

*Department of Political Science*

**David A. Spicer**

Minor in American Studies

### Bachelor of Science in History

Course XXI-H

*History*

**Tobit Levin Glenhaber**

Also with a Major in Course XVIII

### Bachelor of Science in Music

Course XXI-M

*Music and Theater Arts*

**Theresa C. Caso-McHugh**

**Carina R. Masuelli**

**Tristan S. Shin**

Also with a Major in Course XVIII

Minor in Computer Science

### Bachelor of Science in Writing

Course XXI-W

*Program in Writing and Humanistic Studies*

**Mikel C. Carvajal**

Minor in Comparative Media Studies

**Alan Y. Zhu**

Also with a Major in Course VI-3

### Bachelor of Science in Humanities

Course XXI

*Department of Humanities*

**Diane Mwizerwa**

### Bachelor of Science in Humanities and Engineering

Course XXI-E

*Department of Humanities*

**Kidist E. Adamu**

**Jonah A. Baskerville**

(September, 2022)

**Anna G. Dawson**

(February, 2023)

**Luis Angel Dilone**

(February, 2023)

**Justin Thomas Ferris**

**Josephine Camille Tongson Mejia**

**Caroline D. Powers**

**Brinley L. Zhao**

### Bachelor of Science in Humanities and Science

Course XXI-S

*Department of Humanities*

**Catherine Hong**

Also with a Major in Course II-A

### Bachelor of Science in Philosophy

Course XXIV-1

*Department of Linguistics and Philosophy*

**Isaiah M. Jeremie**

(February, 2023)

### Bachelor of Science in Linguistics and Philosophy

Course XXIV-2

*Department of Linguistics and Philosophy*

**Michelle Liu**

### Bachelor of Science in Comparative Media Studies

*Program in Comparative Media Studies*

**John Wesley Lewis**

Also with a Major in Course VI-3

**Michael Hayden Teodros**

## SLOAN SCHOOL OF MANAGEMENT

### Bachelor of Science in Management

Course XV-1

*Sloan School of Management*

**Carson Glen Collard**

Also with a Major in Course XIV-1

**Abiola M. Familusi**

**Amanda S. Hu**

Also with a Major in Course VII  
(February, 2023)

**Salome Otero Gutierrez**

**Valeria Robayo**

Minor in Biology  
Minor in German

**Emily J. Tess**

**Marina Tosi**

Minor in Comparative Media Studies  
(February, 2023)

### Bachelor of Science in Business Analytics

Course XV-2

*Sloan School of Management*

**Graham A. Cartwright**

Also with a Major in Course VI-14

**Min K. Cho**

Minor in Computer Science

**Oakley B. Dehning**

Also with a Major in Course VI-14

**Ankita T. Devasia**

Minor in Chinese  
Minor in Statistics and Data Science

**Hudson Locke Hooper**

Also with a Major in Course VI-3

**Sawyer P. Koetters**

Also with a Major in Course VI-14  
Minor in Mathematics  
(February, 2023)

**Kathryn Michaela Linz**

Also with a Major in Course XIV-2  
(February, 2023)

**Vivian Laura Lo**

Minor in Computer Science

**Matthew Fellows Nay**

Also with a Major in Course VI-14

**Christopher William Noga**

Also with a Major in Course VI-14

**Dana Osei**

**Shanaelle Liana Petty**

**David M. Vapnek**

Also with a Major in Course VI-14

**Henry H. Wang**

Also with a Major in Course VI-14

### Bachelor of Science in Finance

Course XV-3

*Sloan School of Management*

**Anh Vu Hoang Dinh**

Also with a Major in Course VI-4

**Pamela M. Duke**

Minor in Economics  
Minor in Environment and Sustainability

**Laurena Huh**

Also with a Major in Course VI-14

**Jakob Johannes Jarczynski**

Minor in Economics

**Ryan Taesan Kim**

**Kael P. Kordonowy**  
Minor in Economics

**Lane Michael Lipschultz**

Also with a Major in Course XIV-1

**Tingyi Lu**

Also with a Major in Course VI-14

**Haran S. Nadarajah**

Also with a Major in Course VI-14

**Emuoghenekohwo J. Ogilo**

**Haley N. Samuelsen**

Also with a Major in Course XVIII  
Minor in Economics

**Emily Minsi Wang**

Minor in Economics

**Anqi Yang**

Also with a Major in Course VI-3

## SCHOOL OF SCIENCE

### Bachelor of Science in Chemistry

Course V

*Department of Chemistry*

Bader S. Almulhim

Anna S. Bair

Yu-Che Chien

Also with a Major in Course VIII

Nicholas J. Giuliano

Andrew D. Hennes

Also with a Major in Course VI-7  
(See also M.Eng., Course VI-7)

Edward H. Jin

Also with a Major in Course VI-2  
Minor in Mathematics  
(See also M.Eng., Course VI-P)

Skyler Chloe Jones

Also with a Major in Course XXI-L  
(February, 2023)

Jasmin A. Kern

Minor in Writing

Anton Ni

Also with a Major in Course XVIII-C

Jupneet K. Singh

Dion S. Sukhram

Also with a Major in Course VIII

### Bachelor of Science in Chemistry and Biology

Course V-7

*Department of Chemistry*

Gabriella M. Aponte

Minor in Literature

Vinícius Figueira Armelin

Also with a Major in Course XX  
Minor in Computer Science  
(February, 2023)

Gabriel Alberto Caamaño Lasanta  
Minor in Literature

Pedro A. Colón

Dhyey S. Gandhi  
Also with a Major in Course VIII

Ruiyang Guo

Chae Rin Kim

Chanseo Lee

Albert C. Liu  
Also with a Major in Course VIII

Sophia Marie Mirda

Anton Morgunov  
Minor in Computer Science

Ejiro G. Omoruyi

Jeffrey S. Shi  
(February, 2023)

Oliver Tan

Westley Wenbo Wu  
Also with a Major in Course XVIII  
Minor in Literature

Yu Meng Zhang

### Bachelor of Science in Biology

Course VII

*Department of Biology*

Negin Amouei

Yu-Chi Cheng  
Minor in Writing

Aslan Nalani Keiko Cook

Kenneth Leon Cox

Yueyang Fan

Gwyneth Abigail James

Sahithi Madireddy  
Minor in Women's and Gender Studies

Emily McDermott

Liza D. Metcalf

Thao Phuong Nguyen

Shaida K. Nishat  
Minor in Public Policy  
Minor in Science, Technology, and Society  
(February, 2023)

Stephany Panhasopheak Pang  
Minor in Computer Science

Shirin Shahsavari

Madison Andrea Snee  
Minor in Brain and Cognitive Sciences  
Minor in Ancient and Medieval Studies

Emily Jade Sullivan  
Minor in Asian and Asian Diaspora Studies

Alexandra E. Vernich

Javier Antonio Vilá Ortiz

### Bachelor of Science in Physics

Course VIII

*Department of Physics*

Faisal F. Alsallom

Daniel E. Amaya  
Also with a Major in Course XVIII

Hillary Diane A. Andales  
Minor in Astronomy  
Minor in Science, Technology, and Society

Derek M. Baldwin

Luis Gabriel Carlos Bariuan

**Maya Beleznay**  
Minor in French

**Kayla S. Berg**  
Minor in Music

**Thomas Ross-White Bergamaschi**  
Also with a Major in Course VI-3

**Vincent W. Bian**  
Also with a Major in Course XVIII-C

**Lisa Nicole Blomberg**  
Also with a Major in Course XXI-M

**Kylee Taelynn Carden**  
Minor in Astronomy  
Minor in History

**Aidan Durr Chambers**

**Ketandu D. Chiedu**  
Also with a Major in Course VI-3

**Gabriela M. Corea**  
Also with a Major in Course II

**Laura L. Cui**  
Also with a Major in Course XVIII

**Mohit Dighamber**  
Also with a Major in Course VI-14  
Minor in Business Analytics

**Dahlia Louise Dry**  
Also with a Major in Course VI-1  
Minor in Spanish

**Jiahui Du**  
Also with a Major in Course VII

**David Shen Fang**  
Also with a Major in Course VI-3

**Crew James Fritsch**

**Tianhui Jie**  
Minor in Design

**Ashish Kalakuntla**  
Also with a Major in Course VI-2  
Minor in Mathematics

**Anika Elizabeth Katt**  
Minor in Nuclear Science and Engineering

**Timothy H. Kostolansky**  
Also with a Major in Course VI-3

**Vedang Lad**  
Also with a Major in Course VI-2

**Lauren Hsing-Tze Li**  
Also with a Major in Course XVIII

**Chih-Lun Julian Liu**  
Minor in Mathematics

**Richard Luhtaru**  
Also with a Major in Course VI-3

**Luen Malshi**

**Ivan J. Marshall**

**Hendrik T. Mayer**  
Also with a Major in Course VI-3  
Minor in Mathematics

**Ilan Mitnikov**  
Also with a Major in Course VI-9

**Alejandro D. Perez**  
(February, 2023)

**Sahil Pontula**  
Also with a Major in Course VI-1

**Sanjay A. Raman**  
Also with a Major in Course XVIII  
Minor in Music

**Anna Flora Rasmussen**  
Also with a Major in Course VI-7  
Minor in Philosophy

**Aden J. Rothmeyer**  
Also with a Major in Course XXIV-1  
Minor in Biology

**Orisvaldo Salviano Neto**  
Minor in Mathematics  
Minor in Astronomy

**Rila Shishido**  
Also with a Major in Course XXI-M  
Minor in Astronomy

**Pamela Stark**

**Emma Cecilia Stavropoulos**  
(September, 2022)

**Luke M. Stewart**  
(February, 2023)

**Xiangkai Sun**  
Also with a Major in Course XVIII-C

**Joshua Torres**

**Anastasiia V. Uvarova**  
Also with a Major in Course VI-3

**Ronald L. Vaughn II**  
Also with a Major in Course XXIV-1

**Inoela Udelo Vital**

**Brian L. Xiao**  
Minor in Mathematics

**Julian R. Yocum**  
Also with a Major in Course VI-4

**Daniela Alessandra Zaidenberg**  
Also with a Major in Course VI-2

**Bachelor of Science in Brain and Cognitive Sciences**

Course IX  
*Department of Brain and Cognitive Sciences*

**Chelsea C. Ajunwa**  
(September, 2022)

**Reese M. Alley**

**Elizabeth Carbonell**  
Also with a Major in Course VII

**Jimmy Chen**

**Maryann Uche Ogochukwu Chidume**  
Minor in Chemistry

**Edmund S. Corcoran**  
Minor in Biology

**Teresa H. Gao**  
Also with a Major in Course VI-3

**Shelby Kaywalin Laitipaya**  
Also with a Major in Course VII  
Minor in Music

<b>Madison Rose Leone</b> Also with a Major in Course VII (February, 2023)	<b>Nicole E. Dundas</b>	<b>Annika K. Magaro</b> Also with a Major in Course XVIII
<b>Bezawit M. Sahile</b>	<b>Sean Joseph Elliott</b> Also with a Major in Course XVIII	<b>Sofia Mireille Márquez</b> (February, 2023)
<b>Alexandra Renee So</b> Also with a Major in Course XV-1	<b>Kathleen N. Esfahany</b>	<b>Kinan Remy Martin</b> Minor in Linguistics
<b>Molly A. Stephens</b> (February, 2023)	<b>Marie Diane Fadel</b>	<b>Camila Meredith Miranda-Llovera</b>
<b>Bachelor of Science in Computation and Cognition</b> Course VI-9 <i>Department of Brain and Cognitive Sciences in conjunction with the Schwarzman College of Computing</i>	<b>Crista M. Falk</b> Minor in Music	<b>Thomas Tien Ngo</b>
<b>Alex S. Abate</b> (February, 2023)	<b>Jiahai Feng</b> Also with a Major in Course VIII Minor in Mathematics	<b>Anita Podrug</b>
<b>Samar Abu Hegly</b>	<b>Ariel S. Fuchs</b>	<b>Hayley D. Popiel</b> (February, 2023)
<b>Samuel T. Acquaviva</b>	<b>Willem J. Guter</b> Minor in Philosophy	<b>Shreyaa Raghavan</b>
<b>Sami Rafat Amer</b>	<b>Nelson Hidalgo Julia</b>	<b>Shruti Ravikumar</b> Minor in Entrepreneurship & Innovation
<b>Brian Alton Bailey</b>	<b>Stephanie Pui-kay Howe</b>	<b>Nina J. Rhone</b>
<b>Héctor F. Cantú Bueno</b> Also with a Major in Course XVIII Minor in Biology Minor in Statistics and Data Science	<b>Miles Tsuji Hudgins</b>	<b>Shauntclair W. Ruiz</b>
<b>Dasha A. Castillo</b>	<b>Raphaela Hyowon Kang</b> Minor in Biomedical Engineering	<b>Somaia Rahman Saba</b>
<b>Emma Allya Chabane</b> Minor in Spanish	<b>Nicole Kim</b>	<b>Varsha Reddy Sandadi</b>
<b>Curtis C. Chen</b> Also with a Major in Course XXIV-2 (See also M.Eng., Course VI-9)	<b>Sean E. Knight</b> Minor in Comparative Media Studies Minor in Management	<b>Miles B. Silva</b>
<b>Alexis Dah-Eun Cho</b> Minor in Biology	<b>Noa Korneev</b>	<b>David Ulloa</b> Also with a Major in Course XVIII
<b>Jesus Crespo</b>	<b>Eli Kramer</b>	<b>Alyssa Lauren Unell</b>
<b>Itgel Delgerdalai</b> Also with a Major in Course XV-3	<b>Linette Kunin</b> (See also M.Eng., Course VI-9)	<b>Nico van Wijk</b>
<b>Otilia Don</b>	<b>Jiachen Elizabeth Lee</b> Minor in Mathematics	<b>Kayla Marie Villa</b>
	<b>Siyi Lin</b> Also with a Major in Comparative Media Studies Minor in Chinese	<b>Brigette L. Wang</b>
	<b>Qingyuan Lu</b> Minor in Mathematics	<b>Mingye Wang</b>
		<b>Liane Z. Xu</b> Also with a Major in Course XVIII
		<b>Alexis Yang</b>
		<b>Kaitlin W. Zareno</b>

**Katherine S. Zeng**  
Also with a Major in Comparative Media Studies

**Bachelor of Science in Earth, Atmospheric, and Planetary Sciences**  
Course XII  
*Department of Earth, Atmospheric, and Planetary Sciences*

**Aviva B. Intveld**  
Minor in Archeology and Materials

**Skylar Shell Larsen**  
Minor in Comparative Media Studies

**Helena Anne McDonald**

**Kaitlyn E. Przydzial**  
Minor in Biology

**Bachelor of Science in Mathematics**  
Course XVIII  
*Department of Mathematics*

**Keita Tanabe Allen**

**Erik A. Anderson**  
Minor in Finance  
Minor in Computer Science

**CJ Angrist**

**Ilani S. Axelrod-Freed**  
Minor in Physics

**Rose M. Bielak**  
Minor in Writing

**Krit Boonsiriseth**  
Also with a Major in Course VI-3

**Merrick Cai**  
Also with a Major in Course VI-2

**Gabriela René Carcasson**  
Minor in Spanish

**Hem Narayan Das Chaudhary**  
Also with a Major in Course X-B

**Ahmed Zawad Chowdhury**  
Minor in Writing  
Minor in Computer Science

**Enrico Celestino Colón**

**Robert Volpe Cunningham**  
Also with a Major in Course VIII

**Michael Ziyang Diao**  
Also with a Major in Course VI-2  
(See also M.Eng., Course VI-P)

**Justin Edwins**  
Minor in Computer Science

**Alison Fang**  
Also with a Major in Course VI-14

**Maria-Sophia Fedyk**  
Also with a Major in Course VI-3  
Minor in Literature

**Seth Joseph Fine**  
Also with a Major in Course VI-3

**Siwakorn Fuangkawinsombut**  
Also with a Major in Course VI-3

**Maritza A. Gallegos**

**Vishruti Ganesh**  
Also with a Major in Course VI-3  
Minor in Music

**Sarah J. Gao**  
Also with a Major in Course VI-14

**Einat Gavish**  
Also with a Major in Course VI-3  
Minor in Environment and Sustainability

**Benjamin C. Grossman**

**Milan Haiman**

**Frank Y. Han**  
Also with a Major in Course VIII

**Joseph W. Heerens**  
Also with a Major in Course VI-3

**John W. Hegelmeyer**

**Xzavier W. Herbert**  
Also with a Major in Course XXI-M

**Peter W. Hoffman**  
Minor in Finance

**Brian R. Huang**  
Also with a Major in Course VI-3  
(February, 2023)

**Vincent Huang**  
Minor in Biology  
Minor in Computer Science

**Zachary Dylan Hunsucker**  
Also with a Major in Course VIII

**Shawn S. Im**  
Also with a Major in Course VI-3

**Sebastian J. Jeon**

**Catherine R. Ji**  
Also with a Major in Course VIII

**Richter H. Jordaan**  
Also with a Major in Course XXI-L

**Dain Kim**  
Also with a Major in Course VI-3

**Joehyun Kim**  
Minor in Finance

**Daishi Kiyohara**  
Minor in Physics

**Abigail Jane Kolyer**

**Zachary E. Lee**  
Minor in Physics

**Salvatore A. Lentine**  
Also with a Major in Course XV-2

**Jacob Ryan Lerma**

**Alex J. Li**

**Anqi Li**

**Jeffery G. Li**  
Also with a Major in Course VI-3  
Minor in Music

**Jovita Li**  
Minor in Computer Science

<b>Ayodeji Lindblad</b> Also with a Major in Course VI-3	<b>Carl Benjamin Schildkraut</b> Minor in Computer Science	<b>Frederick Y. Zhao</b> Also with a Major in Course VI-3
<b>Dylan K. Liu</b> Also with a Major in Course VI-3	<b>Jordan Ashley Sell</b> Minor in Computer Science Minor in Statistics and Data Science	<b>William Zhao</b> Also with a Major in Course VI-3
<b>Kevin J. Liu</b> Also with a Major in Course VI-3 (See also M.Eng., Course VI-P)	<b>Carlos Andres Solano Saltachin</b> Minor in Computer Science	<b>Tianyuan Zheng</b> Also with a Major in Course VI-14 Minor in Music
<b>Lingyi Ma</b> Also with a Major in Course VI-3	<b>John I. Sragow</b> Also with a Major in Course VI-3	<b>Andy Y. Zhu</b> Minor in Computer Science
<b>Rachana Madhukara</b> Also with a Major in Course VI-2	<b>Daniel E. Stewart</b> Also with a Major in Course VI-3	<b>Daniel G. Zhu</b> Also with a Major in Course VIII Minor in Political Science
<b>Abraham I. Montes</b> Minor in Computer Science	<b>Colin Tang</b>	<b>Bachelor of Science in Mathematics with Computer Science</b> Course XVIII-C <i>Department of Mathematics</i>
<b>Atharv V. Oak</b> Minor in French (See also M.Eng., Course XX-P)	<b>Andrew Lee Tockman</b> Also with a Major in Course VI-3 Minor in Linguistics	<b>Mohammed I. Ahmed</b> Minor in Statistics and Data Science
<b>Ariana A. Park</b> Also with a Major in Course VIII Minor in Economics	<b>Anton Trygub</b> Also with a Major in Course VI-3 Minor in Philosophy	<b>Walker Anderson</b>
<b>Mario A. Pereira</b>	<b>Naveen K. Venkat</b> Also with a Major in Course VI-3	<b>Adam Ardeishar</b>
<b>Sebastian A. Perez</b> (February, 2023)	<b>Allen Wang</b> Also with a Major in Course VI-2	<b>Diego M. Arenas</b> Also with a Major in Course XV-2
<b>Brandon Pho</b>	<b>Rona Y. Wang</b> Also with a Major in Course VI-3	<b>Matthew A. Cho</b>
<b>Xiaoran Qu</b> Also with a Major in Course VI-3 Minor in Music (See also M.Eng., Course VI-P)	<b>Caroline Clancy Warren</b> Also with a Major in Course VI-14 Minor in Business Analytics	<b>Kaan Dokmeci</b>
<b>Carl Joshua T. Quines</b> Also with a Major in Course VI-3	<b>Alexander R. Weiler</b> Minor in Computer Science	<b>Elira Elshani</b>
<b>Tejas R. Rao</b>	<b>Ian T. Williams</b> Minor in Chinese	<b>Enrique Esparza Villarreal</b> Minor in Economics
<b>Brian E. Reinhart</b> Also with a Major in Course XXIV-2	<b>Derrick G. Xiong</b> Also with a Major in Course VI-3	<b>Olivia W. Fan</b>
<b>Mohan Richter-Addo</b> Also with a Major in Course VIII	<b>Isaac S. Zhang</b> Also with a Major in Course VI-14	<b>Zion M. Hadley</b> (February, 2023)
<b>Aleksandre Saatashvili</b>	<b>Stan Zhang</b> Also with a Major in Course VI-14 Minor in Business Analytics	<b>Alina Harbuzova</b> (February, 2023)
<b>Emille Alessandre Santos Sagastume</b> Also with a Major in Course VI-9 Minor in Music Minor in Linguistics		<b>Diani K. Jones</b>

**Amber Liu**

Also with a Major in Course XV-2  
Minor in Writing

**Gabrielle Kaili-May Liu**

Also with a Major in Course IX

**Albert Y. Luo****Andrew J. Mah****Steven C. Marquez**

Minor in Mechanical Engineering

**Mateo Monterde**

Minor in Finance

**Cecilia M. Munoz**

Minor in Spanish

**Oscar Puente****Mason Joe Reiter****Kyle Alexander Smith****Nicolas E. Suter**

Also with a Major in Course XXI-M

**Ivory Tian-hui Tang**

Also with a Major in Course XV-1

**Brendan M. Wagner**

Minor in Economics

**Sirena Xinying Yu**

Minor in Japanese

## SCHOOL OF ARCHITECTURE AND PLANNING

### **Master of Architecture**

Course IV

*Department of Architecture*

#### **Ous Abou Ras**

Feeling Images of the Sun on Earth

#### **Latifa Khalil Yaqoob Alkhayat**

(February, 2023)

Fibers and Fragments: Weaving Local Resources into the Arabian Gulf's Modern Material Culture

#### **Nada Khalid AlMulla**

(February, 2023)

What's in a Poche?

#### **Tim Charlie Tanguy Cousin**

(February, 2023)

Thermal Collectives: Architectural Imaginaries Beyond Modern Comfort (with O.R. Faber)

#### **Patricia Dueñas Gerritsen**

(February, 2023)

Not as Planned

#### **Olivier Renaud Faber**

(February, 2023)

Thermal Collectives: Architectural Imaginaries Beyond Modern Comfort (with T.C.T. Cousin)

#### **Zekun Fan**

(February, 2023)

NEO-FOXCONN: Analysis and Redesign of Foxconn Campus

#### **Julian Andrew Escudero Geltman**

(February, 2023)

Loomings: The Sleep of Reason Produces Monsters

#### **Paul Soren Gruber**

(February, 2023)

Into the Rhino-Verse

#### **Mojolaoluwa Esther Idowu**

(See also M.C.P., Course XI)

Tabi. Tabbi. Tabique. Tabby

#### **Jo C. Kim**

(February, 2023)

Towards Public Housing: Architecture As (Prop)aganda

#### **Zachariah Allan Kish-DeGiulio**

Zanzibar Pizza Hut: Stone Town's Duckorated Sheds

#### **Katherine Emily Koskey**

(February, 2023)

Beyond Topography: Remapping Appalachia

#### **Angela Miriam Loescher-Montal**

(February, 2023)

(See also S.M., Real Estate Development) Nudging Permanence: Berlin's Regulations Meet Temporary Use

#### **Samuel McCuaig May**

(February, 2023)

Homebuilder's Songbook

#### **Sasha McKinlay**

(February, 2023)

Architecture Ad Lib: A Field Guide

#### **Mariana Medrano**

Murals

#### **Sacha Gabriel Gregory Valentin Moreau**

(February, 2023)

Disastrous Opportunities: Designing for Post-Hurricane Adaptivity Using Low Carbon Construction Methods on the Destroyed Site of Belle Creole, St Martin: A Construction Research Center

#### **Yoonjae Oh**

(February, 2023)

Not So Correct: Rebuilding with the Fragments of Memories

#### **Natalie Pascale Pearl**

(February, 2023)

Earthly Forces: Rethinking the Potential Energies of the Episodic, Dispersed, and Upredictable

#### **Vijay Gautham Rajkumar**

(February, 2023)

Ultra-Smooth

#### **Arthur Boscoli Salas Rodrigues**

(February, 2023)

Archidrome

#### **Ardalan SadeghiKivi**

(February, 2023)

Doodlebugging: A Bayesian Methodology of Design

#### **Tristan Searight**

Eating On and Beyond the Infinite Corridor

#### **Jinyoung Sim**

(February, 2023)

Forward to the Past: Redesigning the Form and Flow of C2C Marketplace

#### **Benjamin Alexis Tasistro-Hart**

(February, 2023)

Building Enclosure

#### **Yun Wang**

(February, 2023)

The Architectural Coincidence: Guessing Consciously, Gauging Unconsciously (with H. Wu)

#### **Emily Jane Wissemann**

(February, 2023)

A Draft Resolution Supporting the Municipal Authority to Rearrange: A Non-Optimized Methodology for Doing Less

#### **Haotian Wu**

(February, 2023)

The Architectural Coincidence: Guessing Consciously, Gauging Unconsciously (with Y. Wang)

#### **Ziyan Zhang**

(February, 2023)

Wrinkles

### **Master of Science in**

### **Architecture Studies**

Course IV

*Department of Architecture*

#### **Shubhekshya Bhandari**

Unsettling Roads: Ethnographies of Dust Across Rural Nepal

#### **Luna BuGhanem**

Min B\*\*Id Lab\*\*id (from Far to Far): On Homemaking under Diasporic Conditions

**Dimitrios Chatzinikolis**  
(See also S.M., Course VI)  
Making Hands: Neural Implicit Manifold Learning of Hand Gestures

**Qingyi Duanmu**

**Ganit Goldstein**  
Fashioning Closed Loops Data-Driven  
3D Printed Textiles for Customized  
Garment Manufacturing

**Mark Anthony Hernandez-Cornejo**  
The Vernaculars of Our Networks: From  
the Cloud to a Plurality of Grassroots  
Digital Infrastructures

**Kecheng Huang**  
City as the Infrastructure of Innovation:  
Insights and Proposals for Shaping  
Shenzhen's Innovation Districts and  
Knowledge-Based Industry

**Pramada Jagtap**  
Humanizing Urban Waters: Civilian Led  
Water Corps to Strengthen Decentralized  
Water Systems in Western India

**Jensen Avery Johnson**  
The (a)rchitectural Lexicon of (B)lack  
Hair: A Production of Knowledge

**Zain Karsan**  
(See also S.M., Course II)  
Liquid Metal Printing

**Il Hwan Kim**  
Geomorphic Concrete Material and  
Fabrication Strategies for Heterogeneous  
Concrete Morphology

**Aikaterini Lamprou**  
(See also S.M., Course VI)  
The Shape of Music. Computational  
Specification of Hand Gestures in Piano  
Playing

**Yiwei Lyu**  
Early Stage Embodied and Operational  
Analysis for Guiding Sustainable  
Architectural Design Decisions

**Kevin André Malca Vargas**  
Yaku Cosmo-Infrastructures Designing  
with Water Across the Andes

**Khushi Nansi**  
Her Playing Eye: Courtesans at Chess in  
the Book of Games (c. 1283/84)

**Pimpakarn Rattanathumawat**  
The Monkey Cheeks Toolkit: Design  
Strategies for Mitigating Flood Impacts in  
the Bangkok Metropolitan Area

**Rohit Priyadarshi Sanatani**  
(See also S.M., Course VI)  
PLACEIFY: A Data-Driven Framework  
for Evaluation-by-Analogy in Early-Stage  
Urban Analysis and Design

**Zachary Steven Schumacher**  
Between the Lines: Encoding Relations  
Through Body, Tool, and Algorithm

**Huiwen Shi**  
(February, 2023)  
Big Data Needs Small Data: Exploring  
Digital Adaptability of Restaurants in the  
Context of Covid-19 in Boston

**Nanase Nakamura Shirokawa**  
When War Becomes Peace: Ruination  
and Transvaluation in the Hiroshima and  
Nagasaki Peace Memorial Parks

**Jehanzeb Shoaib**  
Critical Cartographies of Transnational  
Infrastructure-Led Urbanization

**Afy Déborah Lauren Tsogbe**  
Limits of Expression: On Touch, Emotion,  
and Communication

**Han Tu**  
(See also S.M., Course VI)  
Analyzing Affective Responses to Virtual  
Spaces Using Physiological Sensors and  
Verbal Descriptions

**Mona VijayKumar**  
(September, 2022)  
Ery Urbanism: Framework for Water  
Inclusive Urban Growth in Chennai

**Sarine Gacia Vosgueritchian**  
Looking for Pirdoudan: The Past, Present,  
and Future of Mining in Armenia

**Jiaqi Wang**  
Gaming Like a State: Historical Strategy  
Game Victoria and "Keyboard Politics"  
in China

**Rui Wang**  
(February, 2023)  
(See also S.M., Course VI)  
City Image: A Dynamic Perspective  
Using Machine Learning and Natural  
language Processing

**Ziyuan Zhu**  
(September, 2022)  
(See also S.M., Course VI)  
Unwanted Project: Speculative Design for  
Circularity

**Master of Science in Art,  
Culture and Technology**  
Course IV  
*Department of Architecture*

**Christopher Joshua Benton**  
Utopic Déjà Vu: The Power of the Public  
Hallucination in the UAE

**Cristóbal Hernan García Belmont**  
Re-Alimentaciones-Cruzadas: Procesos  
de Re-Imaginación entre Epistemologías  
Acústicas/Cross-Feedback: Re-Imagining  
Relations between Acoustemologies

**Kazi Ishraki**  
Performing Trans-Disciplinarity:  
Exploring Subjectivity and Objectivity in  
Knowledge Production

**Tzu Tung Lee**  
(February, 2023)  
Sailing in the Pirate Sea of Art

**Wa Liu**  
(February, 2023)  
Multispecies Syntopia: Collaborative  
Survival in the Nuclear Anthropocene

**Jose Alejandro Medina Bickford**  
Emergence: Speculative Ecologies &  
Evolution in Art

**Ashmi Mridul**  
Filling the Gaps - Exploring the Scope of  
Arts-Based Education in Jodhpur

**Su Yeon Mun**  
Strategies for Influential Interactivity in  
the Physical Domain

**Christie Nichole Neptune**  
Ah New Riddim: A Marked (Black)  
Axiological Shift Across Space and Time

**Hyun Woo Park**  
How to be Satisfied with Less-than-Perfect Finish

**Luca Smith Senise**  
Rearrangements - Four Urban Experiments Between Soil and Sky

**Master of Science in Building Technology**  
Course IV  
*Department of Architecture*

**Juliana Patricia Berglund-Brown**  
Structural Steel Reuse as a Cost-Effective Carbon Mitigation Strategy

**Leïlah Yadia Kelly Sory**  
Physics-Based Estimates of Structural Material Quantities for Urban-Level Embodied Carbon Assessment in Buildings

**Zhujing Zhang**  
(September, 2022)  
Mitigating Peak Load and Heat Stress under Heat Waves by Scheduling Cooling and Energy Storage Systems

**Master in City Planning**  
Course XI  
*Department of Urban Studies and Planning*

**Octavie Eleonor Berendschot**  
(September, 2022)  
Power Play: An Historiographic about Women and Urban Renewal

**Alexander J. Boccon-Gibod**  
Re-Stitching the Fabric: Urban Highway Removal as an Opportunity for Equitable, Sustainable Transformation

**Nicholette Paige Cameron**  
(September, 2022)  
Implementing (Up)Zoning for Affordability: A Seattle Case Study

**Shaler Rodney Campbell**  
Repetitive Flooding in Riverine Towns: Understanding Responses, Barriers, and Challenges for the Future

**Maria Daniela Castillo Castillo**  
A Participatory Photo-Mapping (PPM) Framework to Observe and Reflect on the Transformation of Public Space: The Case of the Paseo España Environmental Corridor in Bucaramanga, Colombia

**Yuchen Chai**  
(See also S.M., Course VI)  
Determinants and Interventions for Physical Activity Adherence during COVID-19: A Global Study Using Machine Learning Approach

**Dylan Cohen**  
Power and Control in Disinvested Affordable Housing: San Francisco's Limited Equity Housing Co-operatives

**Alberto Cuéllar Cerón**  
(See also S.M., Real Estate Development)  
Entrepreneurship as a Catalyst of Housing Quality in Colombia: Tervi

**John Charles Devine**  
Civic Atlas: Open Government, Civic Tech, and Making Zoning Case Data More Accessible

**Moctar Ndjido Fall**  
The Kids Table: A Report Conceptualizing Youth Empowerment and Food Planning Methods Through the Case Study of the Mattapan Food and Fitness Coalition

**Ruoming Fang**  
(February, 2023)  
Application of Deep Learning to Land Cover Classification: Practice and Strategies

**Abby Kaplan Fullem**  
Collaboration in Unlikely Spaces: The Characteristics and Promise of Successful Collaboration Among Affordable Housing and Environmental Conservation Proponents

**Rebecca Caroline Glasgow**  
(See also S.M., Real Estate Development)  
A Case Study: LIHTC-to-Condo Conversion

**Jonathan Pei-Ying Goh**  
Welcome to Cambodia Town

**Shivali Prakash Gowda**  
Multifamily Affordable Housing Energy Retrofit Strategy for Richmond, CA

**Shannon L. X. Hasenfratz**  
Memorable, Legible, and Accessible Cities: Co-Stewarding Historic Preservation and Public Transportation Agendas in Boston and Hong Kong

**Mojolaoluwa Esther Idowu**  
(See also M. Arch., Course IV)  
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**Melissa Isidor**  
(September, 2022)  
Crossroads: Exploring How Micro Organizations That Leverage Design Shape Urbanism Practice

**Sarah Elizabeth Jeong**  
(February, 2023)  
Digital Tools and Design: Improving Participation in Policymaking

**Sarah Emily Kalish**  
(See also M.B.A., Course XV)  
Awarding Equitably: a process design framework for city grantmakers

**Ipshita Karmakar**  
Disaster Diplomacy: The Spatial Impact of International Reconstruction Aid in the Aftermath of the 2015 Gorkha Earthquake in Nepal

**Gina Hanhee Lee**  
(September, 2022)  
Participatory Zoning: Collectivity, Contradictions, and the Politics of Inclusion in Neighborhood Planning

**Sarah P. Lohmar**  
Strengthening Consumer and Retailer Responsibility for Textile Reuse and Donation in Cambridge and Boston

**Jay Maddox**  
Any Port in the Storm: UK Freeports as a Typology of Governance

**Idélcia Rebeca Domingos Mapure**  
(September, 2022)  
Universities, Communities, and Service-Learning for Urban Development: Rethinking the Work of Kaya Clínica in Maputo, Mozambique

**Tara Zarrin Mohtadi**  
Imagining and Building more Equitable and Democratic Systems: Lessons from Bay Area Organizations

<b>María Jimena Muzio</b> Understanding Housing Supply under More Stringent Energy Efficiency Regulations	<b>Sharon Jacqueline Velasquez-Soto</b> (September, 2022) Olympic Challenge: Designing Equity Into Mega-Events	<b>Valdemar Munch Danry</b> AI-Enhanced Reasoning: Augmenting Human Critical Thinking with AI Systems
<b>Yingu Pan</b> Proposal for New Commuter Rail Service and TOD Master Plan along Guangzhou-Shenzhen Railway	<b>Flavio Emilio Vila Skrzypek</b> The Story of Rubina: Lessons on Self-Governance in Peruvian Informal Settlements and Considerations for Community Land Trusts	<b>Kevin Frederick Dunnell</b> Latent Lab: Exploration Beyond Search & Synthesis
<b>Akrisht Pandey</b> (See also S.M., Real Estate Development) Decarbonizing Metropolises: Analyzing New York's LL97 and Boston's BERDO Net Zero Policies	<b>Elaine Anne Wang</b> Hong Kong Time: Rethinking Sustainable Mobility and the 15-Minute City in the Context of Equity	<b>Mengying Fang</b> ColloGraphy: Designing Augmented Visual-Haptic Feedback Systems to Support Fine Motor Skill Learning
<b>Ana María Pérez Carrillo</b> Hacer la vida en Ciudad Verde: Bringing Participatory Action Research to Colombia's Affordable Housing Macro-Projects	<b>Devon Rose Winer</b> Nature-Based Coastal Adaptation: A Comparative Assessment to Inform Effective Implementation	<b>Dana W. Gretton</b> (September, 2022) Platforms for Biological Control
<b>Pratiwi Prameswari</b> Affordable Housing Provision for Workers Constructing Nusantara, the New Capital City of Indonesia	<b>Lilian Xie</b> (February, 2023) Art, Repair, and Spatial Justice in Boston's Chinatown and Seattle's International District	<b>Ayse Angela M Guvenilir</b> Modeling Gait Muscle-Reflexes Through Hindlimb Characterization in Rodents
<b>Daniel Caesar Pratama</b> Balancing Accessibility & Affordability in Transit-Oriented Development Projects, Case Study: TOD Tanah Abang, Indonesia	<b><u>Master of Science in Urban Studies and Planning</u></b> Course XI <i>Department of Urban Studies and Planning</i>	<b>Shivam Nitin Kajale</b> (February, 2023) vdW Magnetic Materials for Spintronic Applications
<b>Romy Saint Hilaire</b> Black Art Planning: Exhibition Manifesto	<b>Christina Kimberley Last</b> An Unsupervised Machine Learning Approach to Understand the Latent Characteristics Influencing Pedestrian Route Choice	<b>Cassandra Elaine Overney</b> SenseMate: An AI-Based Platform to Support Qualitative Coding
<b>Amelia C. Seabold</b> Learning by Doing: Transitioning Healthcare Technology Innovations from MIT Labs to Resource-Scarce Communities	<b><u>Master of Science in Media Arts and Sciences</u></b> <i>Program in Media Arts and Sciences</i>	<b>Junqing Qiao</b> (February, 2023) Methods for Ankle-Subtalar Joint Free-Space EMG Control
<b>Ilana E. Strauss</b> How Cars Took Over America	<b>Justin Blinder</b> (September, 2022) Walk Deserts	<b>Jocelyn J. Shen</b> Modeling Empathic Similarity in Personal Narratives
<b>Mikaela Strech</b> Co-Design for Equitable Adaptation: Site and Services Resiliency in Border Colonias	<b>Yubin Cai</b> (September, 2022) Wireless Sub-Cellular Sized Stimulators for Minimally Invasive Deep Brain Stimulation with High Spatiotemporal Resolution	<b>Miana Mae Chi Smith</b> Recursive Robotic Assemblers
<b>Ziyi Tang</b> (February, 2023) Impacts of Automated Buses on Travel Mode Preference for Different Income Groups and Density Areas		<b>Jian Shen Tan</b> (September, 2022) 996, Moyu, and Involution: Tech Work in the Age of Platform Monopoly
		<b>Kushagra Tiwary</b> Discovering, Learning, and Exploiting Visual Cues
		<b>Raechel Dionne Walker</b> Liberatory Computing Framework: Empowering High School Students to Mitigate Systemic Oppression through Data Activism

**Xiajie Zhang**  
(September, 2022)  
Towards Building a Pedagogical Agent That Supports Children's Exploration and Home Literacy Education

**Master of Science in Real Estate Development**  
*Center for Real Estate Development*

**Nile Berry**  
(September, 2022)  
Modern Web Scraping and Data Analysis Tools to Discover Historic Real Estate Development Opportunities

**Gregory Paul Bonomo**  
(February, 2023)  
The Effects of Government Legislation and Regulation in the 20th Century on the Evolution of Commercial Real Estate as an Investment Vehicle

**Daryl John Burton**  
Novel Factors in REIT Pricing

**Christopher Taylor Carr**  
(February, 2023)  
(See also M.B.A., Course XV)  
An Argument for the More Widespread Use of Ground Leases in the United States: How to Align Pertinent Interests and Strategically Implement on an Impactful Scale

**Alberto Cuéllar Cerón**  
(See also M.C.P., Course XI)  
Entrepreneurship as a Catalyst of Housing Quality in Colombia: Tervi

**Elaheh Demirchelie**  
(September, 2022)  
Visual Communication of Key Concepts in Commercial Real Estate Analysis and Investment

**Raquel Ganitsky White**  
(February, 2023)  
Reduced-Carbon Envelope Systems for More Sustainable Industrial Properties: A Cost Analysis of Reducing Greenhouse Gas Emissions

**Emilio Gastelú Bárcena**  
(September, 2022)  
Modern Portfolio Theory Applied to Institutional Real Estate Investment

**William Alexander Gietema III**  
Hedging a Falling Knife: Investing Through the Post Covid-19 Dallas-Fort Worth Housing Correction Utilizing Real Options Strategy

**Rebecca Caroline Glasgow**  
(See also M.C.P., Course XI)  
A Case Study: LIHTC-to-Condo Conversion

**Gottfried Hans Hanschke**  
(September, 2022)  
The Holistic Technology Impact Model

**Zhiyuan Shawn Hu**  
Vertically Integrated Real Estate Investment, Operation, and Community Management

**Juan Huicochea Mason**  
(February, 2023)  
ESG Leverage for TOD. General Framework and the Quantitative Underwriting, Governance, and Policy Case of Union Square

**Ashley Katz**  
(September, 2022)  
Two Shades of Green: The Balancing of Affordable Housing Policy with Sustainability Regulation in New York City

**Taeyong Kim**  
(February, 2023)  
A Proposal to Improve Korea's Project Financing Market Using Mixed Methods: Qualitative Approach and AHP Analysis

**Steven La**  
(February, 2023)  
Sourcing Cheaper and Greener Capital for Transit Oriented Developments

**Qiaojun Lai**  
(February, 2023)  
Have the Private Real Estate Funds Out-Performed REITs on a Risk-Adjusted Basis Over Time?

**Carson Christopher Land**  
(September, 2022)  
The Environment and Real Estate: How to Develop for the Future

**Ravisara Lertpunyaroj**  
(February, 2023)  
How to Drive Thailand Developers Toward Net Zero: Lesson Learned from the Developers' Perspective and the Global Studies

**Angela Miriam Loescher-Montal**  
(February, 2023)  
(See also M. Arch., Course IV)  
Nudging Permanence: Berlin's Regulations Meet Temporary Use

**Mihir Manoj Menda**  
(September, 2022)  
An Analysis of the Cost-Benefit of Sustainable Transformation

**Reilly John Nuckel**  
The Warehouse of the Future: The Impact of Automated Technologies in Industrial Assets

**Akrisht Pandey**  
(See also M.C.P., Course XI)  
Decarbonizing Metropolises: Analyzing New York's LL97 and Boston's BERDO Net Zero Policies

**Benjamin Edward Perryman**  
Design Thesis - ReStacks

**Rahul Sharad Raipelly**  
(February, 2023)  
The Impact of Federal Reserve's Policies on the Residential Mortgage Markets (wtih C. Wamakima)

**Shermika S. Roberts**  
(February, 2023)  
International Investments in Luxury Real Estate: An Evaluation of International Real Estate Investors and Developers Entering a Cross Continental Market

**Luis Raul Rodriguez Escalante**  
(September, 2022)  
The 15-Min Concept and Its Relationship with the New Hybrid Culture: Perspective from NYC

**Katherine Gramercy Salvatori**  
(September, 2022)  
Sea Level Rise and Commercial Office Markets in Southeast Florida

**Himanshu Tiwari**  
(September, 2022)  
The Interconnection between Net-Zero Building Code and Rental Housing Affordability in Massachusetts

**Zachary Taylor Vaughn**  
(September, 2022)  
Building an Urban Life Sciences District in Midtown Cleveland: An Opportunistic Development Proposal that Requires Private and Public Collaboration

**Corazon Wamakima**  
(February, 2023)  
The Impact of Federal Reserve's Policies on the Residential Mortgage Markets (with R.S. Raipelly)

**Francis Weiss**  
(February, 2023)  
Increasing Workforce Housing in Miami

**Soojin Whang**  
(February, 2023)  
The Impact of Autonomous Vehicles on Real Estate Housing Market in the United States

**Zehao You**  
A Synergistic Partnership: Decision-Making For Green Energy Adoption In China Data Centers For Sustainable Business Development

**Sherina Shan Ling Zhang**  
(February, 2023)  
Value Creation with Digital Real Estate in Web 3.0

**Chen Zhao**  
(February, 2023)  
Integration and Implementation of ESG Strategies for Real Estate Companies

**Yue Zhao**  
(September, 2022)  
RV Park and Mobile Home Park Investment and Development

**Master of Science**  
**(without specification of field)**

**Waleed Akbar**  
Med. Arts & Sciences  
(September, 2022)  
Battery-Free Wireless Imaging of Underwater Environments

**Ido Calman**  
Med. Arts & Sciences  
Designing Novel DNA-Binding Proteins with Generative Deep Learning

**Laura Alexandra Chicos**  
Med. Arts & Sciences  
(February, 2023)  
Resting State Neurophysiology of Agonist-Antagonist Myoneural Interface in Persons with Transtibial Amputation

**Jason Frank Hou**  
Med. Arts & Sciences  
An Implantable Piezoelectric Ultrasound Stimulator (ImPULS) for Selective Deep Brain Activation

**Tzofi Malki Klinghoffer**  
Med. Arts & Sciences  
Towards Automated Design of Machine Perception Systems

**Kimaya Harippriya Manel Lecamwasam**  
Med. Arts & Sciences  
Pharmamusicology: Exploring the Impact of Music on the Physiology and Psychology of Anxiety Disorders and Well-Being

**David Preiss**  
Med. Arts & Sciences  
(September, 2022)  
Motor Design and Control for Scalable Distributed Actuation

**Aastha Shah**  
Med. Arts & Sciences  
A Conformable Ultrasound Patch for Cavitation Enhanced Transdermal Cosmeceutical Delivery

# SCHWARZMAN COLLEGE OF COMPUTING

## Master of Science in Computational Science and Engineering

*Program in Computational Science and Engineering*

**Katharine Elizabeth Fisher**

Efficient Prediction of Quantum Chemical Properties with Multitask Gaussian Process Regression

**Jessica Karaguesian**

(September, 2022)  
Combining Density Functional Theory and Machine Learning for Optimization of Multicomponent Oxide Electrocatalysts

**Julien Leonardo Luzzatto**

Off-Lattice Kinetic Monte Carlo Methods for Long-Time Integration of Molecular Systems

**Rashmi Ravishankar**

(September, 2022)  
Photovoltaics Detection on Satellite Imagery Using Deep Learning and Remote Sensing

**Young Hyun Ryu**

(September, 2022)  
Adaptive Stochastic Reduced-Order Modeling for Autonomous Ocean Platforms

**Aditya Karthik Saravanakumar**

Coupled Nonhydrostatic-Hydrostatic Hybridizable Discontinuous Galerkin Method

**Daniel Garner Sharp**

Estimating Static Parameters in State Space Models Using Transport Maps

**Corwin Wesley Stites**

Acoustically Controlled Remotely Operated Undersea Vehicles: A Quantitative Analysis

**Songchen Tan**

Higher-Order Automatic Differentiation and Its Applications

**You Xuan Thung**

(September, 2022)  
Applications of Computer Vision in Evaluating the Effects of New Housing Projects

**Zhengkai Tu**

(September, 2022)  
Scalable Model for Reaction Outcome Prediction and One-Step Retrosynthesis with a Graph-to-Sequence Architecture

## Master of Science in Social and Engineering Systems

*Program in Data, Systems, and Society*

**Hussein Mozannar**

Consistent Estimators for Learning to Defer to an Expert

## Master of Science in Technology and Policy

*Institute for Data, Systems, & Society*

**Miranda Nicolle Ahlers**

Empirical Evaluation of Social Network Sensors on Twitter During the Russia-Ukraine Conflict

**Allison Bell**

Bending the ICT Curve: Evaluating Options to Achieve 2030 Sector-Wide Climate Goals & Projecting New Technology Impacts

**Kali M. Benavides**

Exploring the Role of Hydrogen in Decarbonizing Heavy Industry

**Alexa Reese Canaan**

(See also S.M., Course VI)  
Benchmarking Residential Electricity Consumption: A Utility's Demand-Response Machine Learning Approach to the European Energy Crisis

**Christina Chen**

Inequities in Air Pollution Exposure in the U.S.: An Exploration of Disparity Metrics Across Geographic and Temporal Scales

**Thandolwethu Zwelakhe Dlamini**

(September, 2022)  
Analysis of Top-Down Estimates of Mercury in the Atmosphere in the Context Mercury Emissions from Artisanal and Small-Scale Gold Mining in Latin America

**Daniel Erkel**

(February, 2023)  
(See also S.M., Course XVI)  
The Success of Emerging Space Actors: Effective Strategies in the NewSpace Era

**Thomas Francis Galligani III**

Remote Sensing, Inference, and Intelligence in the Information Environment

**Shabnum Kaur Gulati**

Addressing Organizational Barriers in Moving from Policy to Code

**Yiran S. He**

How to Go Greene: The Complex Dynamics of the Ongoing Transition in Southwestern Pennsylvania

**Ryan Thomas Hetrick**

U.S. AI Policy - A Balancing Act

**Joy Kelly Jackson**

Exploring the Role of Race and Place in Residential Solar Photovoltaic (PV) Adoption

**Alejandro Antonio Jimenez Jaramillo**

Developing Data Governance: A Comparative Analysis of Domestic Municipal Policies

**Joonhee Kim**

(February, 2023)  
(See also S.M., Course VI)  
Sensitivity of the Ozone Layer, Climate, and Public Health to Changes in the Location of Aviation Emissions

**Peter Yu-Farn Liu**

(See also S.M., Course XVI)  
System Dynamics Modeling and Analysis of Continuous Production Agility: Policies and Enablers for Resilient Satellite Constellations

**Qingyang Liu**

(See also S.M., Course VI)

Unlocking the Potential of Hydrogen  
in Intermittent Electricity Systems: A  
Global Assessment of Levelized Cost of  
Hydrogen and Low Carbon Industrial  
Hub Profitability

**Kevin Matthew Paeth**

(February, 2023)

Unassisted Humans Infer Personal Traits  
from Facebook Group Memberships: An  
Empirical Study with Implications for  
Employers and State Entities

**Allison Rosemary Shepard**

Equity and Affordability Impacts of  
Building Performance Standards: A Case  
Study of New York City's Local Law 97

**Nicole Xiaoyang Shi**

Distributional Employment Implications  
of a Net-Zero Energy System in the  
Continental US by 2050

**Maja S. Svanberg**

The Economic Advantage of Computer  
Vision Over Human Labor, and Its  
Market Implications

**Disha Trivedi**

(February, 2023)

Assessing Regional Sources of  
Atmospheric Polycyclic Aromatic  
Hydrocarbon Pollution and Associated  
Human Cancer Risk

**Alejandro Jose Valdez Echeverria**

Quantifying the Financial Value of  
Building Electrification Under Economic,  
Policy, and Technological Uncertainty

**Angelo Onorio Vozza III**

Authentic Learning with Portfolios: A  
Combination that K-12 Education Needs

**Rui-Jie Yew**

A Systems-Level Analysis of Algorithmic  
Regulation

**Jiao Zhang**

(February, 2023)

(See also S.M., Course VI)

Improving Predictability of Wind Power  
Generation

## SCHOOL OF ENGINEERING

### Master of Engineering in Civil and Environmental Engineering

Course I-P

*Department of Civil and Environmental Engineering*

#### **Sabika Zehra Bharmal**

Design and Optimization of Post Disaster Relief Structure

#### **Austin Chen**

Accelerating Topology Optimization Codes Using Mesh Refinement Continuation

#### **Minghao Chen**

Investigating the Influence of Interannual Precipitation Variability on Terrestrial Ecosystem Productivity

#### **Ana Cristina Fiallo Van Eenenaam**

Short-Term Wind Direction Forecasting for Wind Farm Control

#### **Alexis Nicole Frankson**

High-Throughput Photodegradation of Plastics

#### **Meriah J. Gannon**

(February, 2023)

Propagation from Meteorological Drought to Agricultural Drought Under Climate Change

#### **Cyrian Henri Hallermeyer**

Network Optimization-Based Approach for Identification of Illegal Trade in the Global Timber Supply Chain

#### **Natasha K. Hirt**

(See also S.B., Course IV)

Generative Structural Design: An Algorithmic Approach to Synthesizing and Optimizing Steel Lateral Systems

#### **Jade Kuuleialoha Ishii**

The Influence of Current and Ripple Development on Seagrass Transplant Survival

#### **In Him Lee**

Nature Based Solutions for Coastal Defense: Wave Attenuation and Economic Analysis of Marsh-Fronted Seawalls

### **Chelsea Karina Medina**

Comparing Optimized Perimeter Steel Bracing of Tall Buildings under Different Seismic Regions

#### **Shailey Patel**

Static Stability and Seismic Safety of Brunelleschi's Dome of Santa Maria del Fiore

#### **William Sharpe**

Investigating Aerosol Composition Using Low Cost Optical Particle Counters

#### **Margaret Suji Indiana Smith**

Barriers to the Use of Computational Tools for Embodied Carbon Reduction in Structural Engineering Practice

#### **John Alan Stark**

Parametric Study and Early-Stage Structural Design for Tall Timber Buildings

#### **Albertine Van Marcke**

Stock-Constrained Optimization of Partially Disassembled Trusses

#### **Aurélien Vasseur Bendel**

Farm-Scale Water Management in Adaptation to Climate Change in Morocco

#### **Karissa Jane Wenger**

(See also S.B., Course I-ENG)

Historic Steel Beam Reuse: A Case Study of a 100-Year-Old Warehouse

#### **Mollie M. Wilkinson**

Materials Characterization & Spectroscopy for a Methane Abatement Catalyst

#### **Colleen Marie Wolfe**

Microneedles for Drug Delivery in Aquaculture

#### **Haodi Xu**

Comparing Phylogenetic and Deep Learning Methods to Predict Seed Dispersal Mode

#### **Xinyi Zeng**

Understanding Soil Carbon Signatures from Hyperspectral Reflectance Data using Spectral Unmixing

### Master of Science in Civil and Environmental Engineering

Course I

*Department of Civil and Environmental Engineering*

#### **Majed Almubarak**

Effects of Experimental Conditions on Fracture Research Using 3D Printed Materials

#### **Nayeli Guadalupe Arellano Martinez**

(See also M.B.A., Course XV)

Visual Sort Marker Digitization in Sort Center Operations

#### **Gregory Alan Cass**

(See also M.B.A., Course XV)  
Driving Growth Through Sales and Operations Planning, Inventory Management, and Supply Chain Expansion

#### **Beatriz Goncalves Klink**

Analytical Graphical Approach for Predicting Ground Conditions in TBM-Based Tunneling Construction

#### **Scott Samuel Hungerford**

(See also M.B.A., Course XV)  
Improving Throughput in an Aluminum Rolling Mill Using Modeling and Optimization Techniques

#### **Peter Emanuel Jacobson**

(See also M.B.A., Course XV)  
Optimization of Private Equity Investments for Industrial Carbon Emission Reduction

#### **Miles David Kurtz**

(See also M.B.A., Course XV)  
Planogram Optimization in Support of Inventory Management

#### **Taylor Pano Lyberger**

(See also M.B.A., Course XV)  
Towards Zero Defect Manufacturing in Electric Vehicle Battery Production

#### **Kristen Anna Riedinger**

(September, 2022)  
A Survey of Superfund Chemicals in Massachusetts Farms

**Julie Marie Sarasua**  
(See also M.B.A., Course XV)  
Network Optimization of a D2C Supply Chain Subject to Changing Cost Conditions and Consumer Preferences

**Lisa Grace Schleuter**  
(See also M.B.A., Course XV)  
Site Material Supply Chain Optimization

**Jason Anthony Teno**  
(See also M.B.A., Course XV)  
Optimizing Apparel Pack Sizes Across Retailer's North America Network

**Kaya Thomas Wilson**  
(See also M.B.A., Course XV)  
Automated Guided Vehicles for Material Flow in Fulfillment Centers

**Alura Danan Vincent**  
(See also M.B.A., Course XV)  
Scenario Planning Framework & Sensitivity Analysis for New Orthopedic Sets in the Spine Platform

**Joshua Ian Weisberg**  
(See also M.B.A., Course XV)  
Enhancing Manufacturing Performance to Plan with Predictive Analytics

**Master of Engineering in Advanced Manufacturing and Design**  
Course II-P  
*Department of Mechanical Engineering*

**Imane Ait mbiriq**  
(September, 2022)  
Remote Clinical Trials Operations: Supply Chain Management and Framework Development

**Hassan Husni Ajami**  
(September, 2022)  
Integration of Additive Manufacturing with CNC Sheet Metal Fabrication for Hybrid Fixtures: Design and Implementation of Sheet Metal Tooling Supports

**Henri J. Bataille**  
(September, 2022)  
From Prototype to Production: Focus on Manufacturing for Low Volume Production of an Industrial Milk Analyzing Device

**Russel Bradley**  
Design and Manufacturing of Educational Fiber Extrusion Device and Smart Factory

**Andrew Thomas Cunningham**  
(September, 2022)  
Integration of Additive Manufacturing with CNC Sheet Metal Fabrication for Hybrid Fixtures: Design and Implementation of Powder Bed Fusion Tooling Surfaces

**Ibrahim Hassan El Khatib**  
(September, 2022)  
Integration of Additive Manufacturing with CNC Sheet Metal Fabrication for Hybrid Fixtures: Design and Implementation of Precision Assembly Interfaces

**Rachael Michelle Flam**  
(September, 2022)  
Laser Powder Bed Fusion Process Characterization: Design of Experiments for Dimensionally Accurate Thin Walls

**Benjamin Casey Graybill**  
(September, 2022)  
Framework to Accelerate Parameter Development for Laser Powder Bed Fusion

**Maya Padmini Kota**  
(February, 2023)  
Using Optical Imaging and Image Processing to Verify Initial Layer Setup in a Laser Powder Bed Fusion Process

**Aviva Jesse Levi**  
(September, 2022)  
Design and Manufacturing of the Extrusion Assembly for an Advanced Process Control Educational Device

**Rui Li**  
(September, 2022)  
Design and Manufacturing of the Filament Collection and Diameter Measurement Systems of Fiber Extrusion Device for Educational Purposes

**Xiaomeng Li**  
(September, 2022)  
From Prototype to Production: Product Development of a Modular Automated Milk Sampling Device for Conventional Dairy Farms

**Xuan Yi Lim**  
(September, 2022)  
Characterization of the Surface Roughness of Overhangs Manufactured by Laser Powder Bed Fusion Process Using Design of Experiments

**Ryan Lin**  
(September, 2022)  
Framework Development for Remote Clinical Trials: Assembly Process Design

**Jane Ellen Modes**  
(February, 2023)  
Optical In-Process Monitoring Tools for Laser Powder Bed Fusion: Verifying Powder Area Coverage of a Layer Setup

**Joyce Noh**  
Packaging Design for Remote Clinical Trial Operations

**Mohamed Ayman Othman**  
(February, 2023)  
Application of Machine Learning in Process Control in Optical Fiber Manufacturing

**Luis Fernando Rodriguez Cabrera**  
(September, 2022)  
Warehouse Automation: Improvements for the Precise Placement of Irregular Pallets

**Tanach Rojrungsasithorn**  
(September, 2022)  
Factory and Material Flow Design for Mass Production of an Advanced Process Control Educational Device

**Satvik Irappa Sabarad**  
(September, 2022)  
Correlating Displacement Sensors and In-Situ Optical Imaging for the Layer Management in a Laser Powder Bed Fusion Process

**Maelle Jade Sardet**  
(February, 2023)  
A Data-Driven Approach to Improve Optical Fiber Manufacturing: Focus on Core Deposition

**Nilay Sanjay Sawant**  
(September, 2022)  
Feasibility Study of Transfer Learning on LSTM Recurrent Neural Networks for Fiber Manufacturing Commercialization

**Carly Madeleine Smith**

(September, 2022)

Remote Clinical Trial Operations: Patient Education for Medical and Wearable Device Use

**Benjamin Thomson**

(September, 2022)

From Prototype to Production: Scaling an On-Farm Milk Analyzing Device to Low Volume Production Using Design for Manufacturability and Assembly

**Jayna Wittenbrink**

(February, 2023)

Using Displacement Sensors to Characterize Critical Powder Layers in Laser Powder Bed Fusion

**Master of Science in Mechanical Engineering****Course II***Department of Mechanical Engineering***Marwa AlAlawi**

A Design and Fabrication Pipeline for Integrating Rotary Encoders into 3D Printed Mechanisms

**Michael Whitney Aling**

(September, 2022)

An Electrochemical Sensor Development Platform

**Samair Alyassini**

Laser-Induced Particle Impact Testing in High-Pressure Oxygen Environments

**Nicolas Arons**

(September, 2022)

Human Interaction with Various Elliptical Constraints

**Erik Nicholas Ballesteros**

Supernumerary Robotic Limbs for Next Generation Space Suit Technology

**Adam Harrison Barber**

(See also M.B.A., Course XV)

Modeling Passenger Electric Vehicle Charging Demand with Machine Learning Using Telematics Data and Temperature

**Zeina Nedal Barghouti**

Preservation and Deployment of Biofertilizers to Mitigate Soil Phosphorous Loss from Agricultural Systems

**Ryan Timothy Benz**

(February, 2023)

A Silicate-Based Packaging Material for 3-D Heterogenous Integration of Microsystems

**Elizabeth Marie Bernhardt**Linking Amine Physicochemical Properties and Electrochemical Activity for Aqueous Reduction of Captured-State CO<sub>2</sub>**Michael Bichnevicius**

Design and Characterization of a Pumped Circulation Loop for Molten Chloride Salt

**Michael James Bishop**

Preventing Stern Tube Corrosion through Shipboard Cathodic Protection

**Heather Genevieve Bowman**

(February, 2023)

Novel Treatment of Anal Fistulas and Endovascular Drug Delivery for Peripheral Arterial Disease

**Casey Storm Bradt**

A Study of the Effects of Piston Secondary Motion on Piston Ring Conformability and Coolant Cavitation in Heavy-Duty Engines

**Antonia Delores Bronars**

(September, 2022)

Estimating Global Object Pose from Tactile Images

**Angel Bu**

Investigating the Impact of Biochemical and Mechanical Stimuli on Motor Neuron Growth

**Thomas Butruille**

Effect of 3D Architecture on Energy Dissipation during High-Speed Particle Impact

**Dylan James Carberry**

Limpet Shell Growth: A Kinematic Framework

**John Harris Cathcart IV**

(See also Naval E., Course II)

Integration and Implementation of Conceptual Design Tools for Naval Warships

**Kelsey O'Brien Cathcart**

(See also Naval E., Course II)

Detrainment and Settling of Sediment in Turbidity Currents: A Study to Inform Deep Seabed Mining

**Avi Chatterjee**

(See also S.M.(N.A.M.E.), Course II) Design and Modeling of Shipwide Navy Integrated Power and Energy Corridor Cooling System

**Natalie Alyssa Chehrizi**

(See also M.B.A., Course XV)

Driving the Future of Long-Haul Trucking: Realizing the Potential of Battery Electric Vehicles through an Analysis of Financial and Environmental Impacts

**Jaehun Choe**

(February, 2023)

Semi-Autonomous Magnetic Manipulation for Endovascular Navigation

**Shreya Dhar**

(September, 2022)

Design and Analysis of a Desktop Fiber Manufacturing Device

**James Michael Donegan**

(See also M.B.A., Course XV)

Sustainability Analytics – Meeting Carbon Commitments Most Efficiently

**Camilo Duque Londoño**

(See also Naval E., Course II)

A Hydrogel Adhesive Marine Sensing System: Design, Mechanism and Applications

**Kristen Marie Edwards**

(September, 2022)

Accelerating the Design Process Through Natural Language Processing-Based Idea Filtering

**Seiji Hoshino Engelkemier**

Opportunity for Long Duration Storage Technologies: Thermal and Compressed Air Energy Storage

**Nicholas Francis Esposito**  
(See also M.B.A., Course XV)  
Make vs. Buy Optimization for Industrial Distribution and Manufacturing Company

**Dylan Steel Fife**  
Temperature and Thermal Noise Suppression for Precision Mechanical Experiments

**Peter Fisher**  
Fast Adaptive Laws for Adaptive Control Under Stochastic Disturbances

**Ryan Maximiliano Flores**  
(September, 2022)  
Material Handling for Continuous Lyophilization Process

**Megan Camille Flynn**  
Exploring Maneuvering Strategies for Heterogeneous Cooperative Navigation in Underwater Environments

**Michael Foshey**  
(February, 2023)  
Embroidered Multi-Modal Sensing Arrays for Tactile Perception

**Avery Gilbert Fullerton**  
(See also M.B.A., Course XV)  
Ship-Pack Optimization to Minimize Fulfillment Costs from Manufacturing to Customer

**Lauren Marie Futami**  
(September, 2022)  
Temperature Disparity Comparisons for Campus Heat Vulnerabilities

**Francisco Javier Galindez de Jesus**  
(See also M.B.A., Course XV)  
Integrated Energy Modelling Tool for Electric and Gas Infrastructure Decision Support

**Qiyun Gao**  
A Novel Device For the Treatment of Obstructive Sleep Apnea

**Daniel E. González Díaz**  
(February, 2023)  
Real-Time Self-Collision Avoidance for Dynamic Legged Robots

**Fiona Grace Gouthro**  
(See also M.B.A., Course XV)  
Innovation Process at Omnichannel DCs Undergoing Shifts in Channel Mix

**Ethan Logan Greene**  
(See also M.B.A., Course XV)  
Development of a Student Operated Production Facility Using Discrete Event Simulation and Continuous Improvement

**Anubhav Guha**  
(September, 2022)  
AC-RL: A Framework for Real-Time Control, Learning, and Adaptation

**Toni-Rose Maico Guiriba**  
(See also M.B.A., Course XV)  
Improving Supply Chain Resiliency through Aseptic Connector Alignment and Standardization

**Menglong Guo**  
(September, 2022)  
Design of Fingertip Sensors and 7-Dot Hands for Robotic Manipulation

**Zoe L. Hinton**  
(See also M.B.A., Course XV)  
Enhanced Digital Capability through the use of Simulation in Footwear Product Creation

**Jacob Tyler Hopkins**  
(See also M.B.A., Course XV)  
Performing Actionable Evaluations of Sustainability Investments

**Ori Hoxha**  
(See also M.B.A., Course XV)  
External Network Manufacturing Capacity Design and Procurement in the Pharmaceutical Industry

**Mariam Elisabeth Ibrahim**  
(See also M.B.A., Course XV)  
Developing a Data-Driven Strategy for In-Process Quality Assurance for Additive Manufacturing

**Aman Jalan**  
(February, 2023)  
Neural Closure Models for Chaotic Dynamical Systems

**Justin Leon Jiang**  
(See also M.B.A., Course XV)  
Digital Supply Chain Connectivity and Capacity Analysis for Strategic Production Planning in Biosurgery  
Oxidized Regenerated Cellulose

**Kyle Siyu Jiang**  
(September, 2022)  
Design Guidelines for Sulfonyl/Sulfamoyl Fluoride Additives to Modulate Lithium Anode Coulombic Efficiency

**Tal Joseph**  
Enhancing Gas Absorption with Nanoengineered Surfaces for Bubble Manipulation

**Alex Kachkine**  
Additively Manufacturing High-Performance, Low-Cost Electrospray Ion Sources for Point-of-Care Mass Spectrometry

**Zain Karsan**  
(See also S.M.Arch.S., Course IV)  
Liquid Metal Printing

**Samantha Violet Killy**  
(September, 2022)  
Towards Active Object-Based Navigation

**Hyeonseok Kim**  
3D-Printed, Internally Fed Electrospray Thruster

**Benjamin C. Koenig**  
Enabling Efficient Uncertainty Quantification of Turbulent Combustion Simulations via Kinetic Dimension Reduction

**Jomi Saxl Kramer**  
(See also M.B.A., Course XV)  
Outside Inside, Inside Around: Leveraging External Innovation Through Strategic Corporate Venture Capital Investment

**Matthew Thomas Kruse**  
(See also S.M.(N.A.M.E.), Course II)  
Preliminary Shipboard Layout of Navy Integrated Power and Energy Corridor (NiPEC)

**Zachery Wolfgang Kutschke**  
Design and Commissioning of a Hybrid Additive Manufacturing System Combining Inkjet Deposition and Laser Powder Bed Fusion

**Tioga Jasper Laird Benner**  
Design of a Portable Device to Detect Per- and Polyfluoroalkyl Substances (PFAS) in Water

**DoYoon Lee**  
Layer-by-Layer Single-Crystal Two-Dimensional Material Growth by Geometric Confinement

**Sheng-Hung Lee**  
(September, 2022)  
(See also S.M., Engineering and Management)  
Human-Centered System Design for an Aging Population: An Experimental Study of Footwear Design

**Chenyang Li**  
(September, 2022)  
Thermodynamic Modeling and Design of High-Performance Adsorption-Based Atmospheric Water Harvesting Devices

**Heyi Li**  
Towards Low-Cost Context Awareness on Smart Shelving Using Passive UHF RFID Infrastructure

**Mo Li**  
(February, 2023)  
Experimental Investigation of the Blowby Effect on the Three-Piece Oil Control Ring and Subsequent Oil Transport in Transient Engine Working Conditions

**Xuanhe Li**  
(September, 2022)  
Investigation of Thermo-Chemo-Mechanically Coupled Phenomena in Frontal Polymerization

**Emily Lin**  
High Energy Density Entrainment-Based Catalytic Micro-Combustor for Portable Devices in Extreme Environmental Conditions

**Qian Lin**  
Path Planning for Trajectory Guided Freehand Ultrasound Scan

**Lisa Liu**  
(See also M.B.A., Course XV)  
Model-Based Technology Roadmapping of Fuel Cells in Sustainable Aviation Applications

**Kyle J. Lux**  
(See also M.B.A., Course XV)  
Identifying Bottlenecks through Process Consistency in High-Capacity Automated Manufacturing

**Naomi Lana Lynch**  
Flexure-Based Devices Enable Precise Quantitative Monitoring of Muscle Performance

**Uriel Magaña-Salgado**  
(February, 2023)  
Methods for Physiologic Tremor Characterization, Mitigation, and Modeling

**Crystan Symone McLymore**  
Real-Time Radiation Detection within the Gastrointestinal Tract

**Igor Mogilevsky**  
(February, 2023)  
(See also S.M.(N.A.M.E.), Course II)  
Shipping Decarbonization through Sea Route Optimization & Vortex Generator Resistance Reduction

**Daniel Patrick Moriarty**  
(September, 2022)  
(See also S.M., Course III)  
Effects of Strain on Activated-Aluminum-Water Reactions

**Madison Christine Myers**  
(See also M.B.A., Course XV)  
On-Site Hydrogen Production via Distributed Methane Pyrolysis

**Joushua G. Padilla**  
Characterizing the Thermal Behavior of Pyrolytic Graphite Sheets (PGS) at Low Interface Pressures

**Anjali Parashar**  
Accelerated Algorithms for Constrained Optimization and Control

**Palak B. Patel**  
(September, 2022)  
Experimental Nanoengineering of Multifunctionality into an Advanced Composite Laminate

**Isabelle Claire Patnode**  
Protecting Our Investment: Solving Fast Response Cutter Corrosion

**Linda Pratto**  
Internal Combustion Engine Performance using Aluminum as Fuel

**Jiajie Qiu**  
Active Vibration Suppression for Wafer Transfer Systems in Semiconductor Fabrication Plants

**Diego Alonso Quevedo Moreno**  
A Soft Robotic System for Mechanical Assistance to the Diaphragm

**Madison Reddie**  
Redesigning Diabetic Foot Risk Assessment for Amputation Prevention in Low-Resource Settings: Development of a Purely Mechanical Plantar Pressure Evaluation Device

**Preston W. Rhodes**  
Characterizing Hydrodynamic Interactions of Underwater Vehicles in Close Proximity Using an Identical Ellipse Pair

**Jean Carlos Roman**  
Single Degree of Freedom Solid Rotar Velocity Control Induction Drive

**Edvard Ronglan**  
(See also S.M., Course VI)  
Bayesian Optimization and Cartesian-Grid Simulations for Artificial Reef Design

**Darron Robert Sandifer**  
(See also M.B.A., Course XV)  
Continuous Improvement Framework for a Multi-Model Production Line

**Alejandro R. Sevilla**  
(February, 2023)  
Elucidating Concentration and Temperature-Dependent Energy Limitations of a Novel Fluorinated-Organosulfur Catholyte for Li Primary Batteries

**Zhiyuan Shu**  
Development and Application of Elastohydrodynamic Lubrication Model for Piston Pin

**Allison Rhett Smedberg**  
(See also M.B.A., Course XV)  
From Bench to Bucks: An Approach and Case Study in Scaling Additive R&D Technologies within the Aerospace Industry

**Brandon Drumright Snow**  
Modeling Microvoid Localization with Explicit Finite Element Analysis

**Jonas Sogbadji**  
Impact of Lesion Preparation-Induced Calcium Fractures in Vascular Intervention for Atherosclerotic Disease: In Silico Assessment

**Lucas Kistner Stone**  
(See also Naval E., Course II)  
Oscillating Energy Harvester for UUV Applications

**Rachel Sun**  
Acoustic Metamaterials at the Microscale

**Jonathan N. Tagoe**  
Design and Testing of a Respiratory Simulator for the Optimization of Soft Robotic Assistive Breathing Devices

**Annika Elizabeth Thomas**  
Innovative Structural and Mechanical Satellite Systems

**Max T. Thomsen**  
Local Shape Estimation Using Mechanochromic Structurally-Colored Tactile Sensors

**Megha Harishree Tippur**  
(September, 2022)  
Design and Manufacturing Methods for a Curved All-Around Camera-Based Tactile Sensor

**Jacob Andrew Tomasovic**  
(See also M.B.A., Course XV)  
Manufacturing Integration: Managing Throughput and Organizational Change

**Jimmy T. Tran**  
Mapping the Electrodialysis Architecture Design Space by Determining Optimal System Configurations for Different Production Outputs

**Jillian Marie Uzoma**  
(See also Naval E., Course II)  
Predicting Interactions Between Energy Saving Devices on Surface Ships

**Lois Amelia Wampler**  
(February, 2023)  
A Doppler Radar Lock-In Demodulation Algorithm for Machine Vibration Sensing

**Mallory M. Whalen**  
High-Precision Stress Measurement in Thin Films for X-Ray Mirrors

**Jadai Nyles Williams**  
A Koopman-Based Reduced-Order State Observer for Visual Localization of Robots

**Robin Willis**  
Design Change Propagation in Complex Systems: Industry Processes and Perceptions

**Alexander Joseph Wunderlich**  
(See also Naval E., Course II)  
Feasibility Study of a Linear Generator Wave Energy Converter With Adaptive Bistable Control

**Haiqian Yang**  
(September, 2022)  
Spatial Organization of Multicellular Living Systems

**Ahmad Zakka**  
Measurement and Analysis of Lubricant Oil Consumption in a Single Cylinder Hydrogen IC Engine

**Master of Science in Naval Architecture and Marine Engineering**  
Course II

*Department of Mechanical Engineering*

**Avi Chatterjee**  
(See also S.M., Course II)  
Design and Modeling of Shipwide Navy Integrated Power and Energy Corridor Cooling System

**Matthew Thomas Kruse**  
(See also S.M., Course II)  
Preliminary Shipboard Layout of Navy Integrated Power and Energy Corridor (NiPEC)

**Igor Mogilevsky**  
(February, 2023)  
(See also S.M., Course II)  
Shipping Decarbonization through Sea Route Optimization & Vortex Generator Resistance Reduction

**Master of Science in Materials Science and Engineering**  
Course III  
*Department of Materials Science and Engineering*

**Camille Catherine Farruggio**  
Analysis and Modulation of Manufacturing Conditions for Improved Cell Therapeutic Efficacy

**Christopher John Karpovich**  
(See also S.M., Course VI)  
Machine Learning Enabled Inorganic Synthesis Planning and Materials Design

**Daniel Patrick Moriarty**  
(September, 2022)  
(See also S.M., Course II)  
Effects of Strain on Activated-Aluminum-Water Reactions

**Serita Lynne Sulzman**  
Processing and Thermal Stability of Nanocrystalline Ag-Cu Alloys

**Master of Engineering in Electrical Engineering and Computer Science**  
Course VI-P  
*Department of Electrical Engineering and Computer Science in conjunction with the Schwarzman College of Computing*

**Liam James Ackerman**  
(September, 2022)  
Leveraging Engineering Expertise in Deep Reinforcement Learning

**Ikechukwu Daniel Adebi**  
Landslide Susceptibility Prediction Adaptive to Triggering Events

<b>So Hee Ahn</b> Multimodal Data Fusion for Deep Learning Applications in Intracoronary Image Segmentation	<b>Christopher J. Blazes</b> (September, 2022) Algorithmic Approaches to Interfacing Different Materials Using Inkjet Multi-Material 3D Printers	<b>Valerie K. Chen</b> Grid Inference and Partial Scan Registration for Intelligent Collaborative Robot Systems
<b>Raul A. Alcantara Castillo</b> Frientelligent: Autonomous Multi-Agent Collaboration, Competition, and Interaction Curriculum for Young Children	<b>Grace Cai</b> (February, 2023) (See also S.B., Course VI-2) Geometry-Sensitive Swarm Algorithms	<b>William Chen</b> Applications of Large Language Models for Robot Navigation and Scene Understanding
<b>Obada M. Alkhateb</b> (September, 2022) Sampling Methods for Fast GNN Training	<b>Paul G. Calvetti, Jr.</b> Optimizing the Allocation of Capital among Offensive Positions in the NFL	<b>Henry Y. Cheung</b> (February, 2023) Computing Fibers: Architectures and Applications
<b>Harrison M. Allen</b> (September, 2022) NeuroModular - A Modular Backend for Fiber-Based Wireless Bioelectronic Interfaces	<b>João Lucas Camelo Sá</b> Applications of Deep Learning to Financial Time Series Forecasting	<b>Prem Chintalapudi</b> Reducing Compilation Latency in the Julia Programming Language
<b>Connor W. Anderson</b> (September, 2022) Implementation of Vision-Based Autonomous Navigation in Pedestrian Environments	<b>Michael R. Cantow</b> ThoughtLine Web Server for Mental Health Wellness and Psychotherapy	<b>Jung Soo Victor Chu</b> Automated Pipelines for Information Extraction from Semi-Structured Documents in Structured Forma
<b>Joshua C. Ani</b> (February, 2023) Unsimulability, Universality, and Undecidability in the Gizmo Framework	<b>Emily I. Caragay</b> Broken Expectations, Broken Concepts: A New Diagnosis of Dark Patterns	<b>John B. Cook</b> (February, 2023) An Effective Platform for Assessing Cognitive Health
<b>William A. Archer</b> (February, 2023) Visual Charting of Classified Audio Data	<b>Grecia Castelazo</b> (September, 2022) Prospects for Quantum Equivariant Neural Networks	<b>Alex C. Cuellar</b> (September, 2022) Inference and Task Planning over Spatially Complex Problems
<b>Riya Arora</b> (See also S.B., Course VI-3) Understanding Human Perception Through Mooney Faces	<b>Colin P. Chaney</b> (September, 2022) Long Term Measurement of Bandgap Voltage and System Level Integral Non-Linearity Drift	<b>Howard DaCosta III</b> Configurable Online Multi-Tiered Storage in Database Management Systems
<b>Maria Ascanio Aliño</b> (See also S.B., Course VI-3) Testing for Subtle Cognitive Impairments in a Clinically Informed iPad Platform	<b>Christopher W. Chang</b> (September, 2022) S*: Geometric Multimodal Trajectory Optimization via Apex Interpolating Spiro Splines	<b>Haimoshri Das</b> Improving Segmentation and Registration of the Placenta in BOLD MRI
<b>Nithya Sri Attaluri</b> (See also S.B., Course VI-2) A Hardware Accelerator for Sparse Matrix Multiplication and Sparse Convolution	<b>Ashley Chen</b> Privacy-Preserving Natural Language Dataset Generation	<b>Michael Ziyang Diao</b> (See also S.B., Course XVIII) Proximal Gradient Methods for Gaussian Variational Inference: Optimization in the Bures-Wasserstein Space
<b>Reginald Davis Best, Jr.</b> Building a Dataset and Developing a Video Event Classifier for Football	<b>Jeffrey T. Chen</b> (September, 2022) SafeGENIE: Secure and Federated Linear Mixed Model Association Tests	<b>Alejandro Daniel Lino Diaz</b> (February, 2023) Monolithically 3D-Printed, Quadrupole Mass Filter for High-Precision, Compact, CubeSat Mass Spectrometry
	<b>Shiqi Chen</b> Bi-Directional Flyback Converter Circuit Design for Flapping-Wing Microrobots	<b>Alexandra Dima</b> (February, 2023) GSTACO: A Generalized Sparse Tensor Algebra Compiler

**Laura N. Dodds**  
(September, 2022)  
A Portable Handheld Fine-Grained RFID Localization System with Complex-Controlled Polarization

**Yun Shwe Eain**  
Understanding Impact of Life Experiences on Performance and Learning Behavior in an Introductory Computer Science MOOC

**Gabrielle Edyt Ecanow**  
Debug Tutor: Automated Deliberate Debugging Practice for Undergraduate Programmers

**Daniel G. Edelman**  
Energy Requirements of Computer Vision Training

**Tareq El Dandachi**  
(February, 2023)  
Efficient Simulation of Large-Scale Superconducting Nanowire Devices

**Dean Fanggohans**  
(See also S.B., Course VI-3)  
Defio: Instance-Optimized Fusion of AWS Database Services

**Amir Farhat**  
(September, 2022)  
Increasing DoS-Resilience for Cross-Protocol Proxies

**Manuel Alejandro Favela**  
(September, 2022)  
Investigating Different Image Representations for Image Retrieval

**Hannah Margaret Field**  
(February, 2023)  
Magnetothermal Modulation of Nerve Growth

**Alisha Fong**  
NDF-Based API for Human-Assisted Language Planning (HaLP)

**Reed A. Foster**  
Large Scale Superconducting Circuits with Nanocryotron Logic

**Sebastian L. Franjou**  
(September, 2022)  
Arty: Expressive Timbre Transfer Using Articulation Detection for Guitar

**Kevin Frans**  
(See also S.B., Course VI-2)  
Generalizable Reinforcement Learning via Open-Ended Task Generation

**Stephanie Fu**  
More Than Meets the Metric: A New Measure for Perceptual Similarity

**Evan P. Gabhart**  
(September, 2022)  
Quantized Guessing Random Additive Noise Decoding - A Universal Quantized Soft-Decoder

**Jenny Leixin Gao**  
(February, 2023)  
Learning Z-Order Indexes with Dynamic Bit Allocation

**Ricardo M. Gayle, Jr.**  
Potentials with Halide in LAAMPS

**Jamie Geng**  
Characterizing the Aging of InP Quantum Dot LEDs

**Irin Ghosh**  
(September, 2022)  
Characterizing the Structure of Transmission Matrix in Lower Dimensions

**Shinjini Ghosh**  
Advancements in Word Alignment: Introducing a Novel Count-Based Subword Model Alongside Neural and Ensemble Models

**Miguel Gomez-Garcia**  
Citadel: Implementing Side-Channel-Resistant Enclaves with Secure Shared Memory

**Luka Govedič**  
Improving the Performance of Parallel Loops in OpenCilk

**Pawan Goyal**  
Private Information Retrieval with Access Control

**Veronica M. Grant**  
Proliferated Low Earth Orbit (pLEO) Satellite Constellation Handover Cost Analysis

**Peyton S. Greve**  
Estimating a Baseball Hitter's Bat Speed Using One Camera

**Aayush Gupta**  
(September, 2022)  
Unique Noninteractive Zero Knowledge Nullifiers and Novel Zero Knowledge Proofs of WiFi Connectivity

**Dagmawi Samuel Haile**  
Liquid News - A Semantic-Relational Model for Enhanced Understanding

**Julian S. Hamelberg**  
Creative Applications and Implications of MIDI 2.0

**Max R. Hardy**  
Laser Intensity Agnostic Stabilization of Interferometer for Optical Neural Networks

**Frances R. Hartwell**  
(February, 2023)  
Zephyr: A Data Centric Framework for Predictive Maintenance of Wind Turbines

**Tommy S. Heng**  
Bridging the Gap: Designing Accessible Industrial Robotics UIs for Non-Technical Users with Concept Design

**Carlos Gustavo Hernandez**  
Software Library for Generative Model Applications

**William Hu**  
(September, 2022)  
Variational Autoencoders for Discovering Influential Latent Factors

**Kuan Wei Huang**  
(February, 2023)  
Unified Masked Autoencoders

**Tiffany Y. Huang**  
Explicit Regularization for Overparameterized Models

**Raymond Minor Huffman**  
(February, 2023)  
Julia on WebAssembly

<b>Neha S. Hulkund</b> (See also S.B., Course VI-3) Improving OOD Detection with Transformation Neighborhood Marginalization	<b>Roger Jin</b> (September, 2022) Unsupervised Translation between scRNA and scATAC	<b>Cole Thomas Kingston</b> Measuring Grit in NFL Cornerbacks Using Statistical Analysis
<b>Christian Z. Hwa</b> (September, 2022) Single-Cell Differential Splicing of Alzheimer's Disease in 1.9 Million Cells Across 416 Individuals	<b>Suzanna A. Jiwani</b> (February, 2023) Risk-Aware Neural Navigation for Interactive Driving	<b>Daniel A. Klahn</b> Implementation of an Autonomous Surface Vehicle for Aquaculture
<b>Chiho Im</b> Learning the Language of Antibody Hypervariability Through Biological Property Prediction	<b>Cooper R. Jones</b> Distributed Monte Carlo Tree Search With Applications to Chip Design	<b>Aleksandar Krastev</b> (See also S.B., Course VI-3) A Tensor Compiler for Simple and Efficient Fully Homomorphic Encryption
<b>Assel Ismoldayeva</b> (February, 2023) Dissecting Ancestry-Biased Germline Effects in Lung Cancer	<b>Shulamit H. Jones</b> "Customization is Key": Four Characteristics of Textual Affordances for Accessible Data Visualization	<b>Sophia Seoyoung Kwon</b> Toward Improved Non-Interactive Proof Systems
<b>Lay Jain</b> Unsupervised Representation Learning from Intravascular Ultrasound Videos	<b>Ioannis Kaklamanis</b> Fault Tolerant Broadcast in Bandwidth-Constrained Networks	<b>Abby A. Lambert</b> Identifying Objects' Inertial Parameters with Robotic Manipulation to Create Simulation-Ready Assets
<b>Sandy Jean-Charles</b> (February, 2023) Sensemaking: An Analysis of Participatory and Automated Methods	<b>Sohini Kar</b> Simulating Economic Experiments Using Large Language Models: Design and Development of a Computational Tool	<b>Anna K. Landler</b> (February, 2023) Capacity Expansion Modeling of Hydrogen and Electricity with Sector Coupling in New England
<b>Meagan R. Jens</b> Baba is AI: A Grounded Benchmark for Compositional Generalization in Dynamic Rule Systems	<b>Matthew T. Kearney</b> (See also S.B., Course VI-2) Transformer Model Neuron Explanations	<b>Jay T. Lang</b> lab-bc: A Serverless Computing Platform for MIT Educators
<b>Sharon Jiang</b> Conceptualizing Machine Learning for Dynamic Information Retrieval of Electronic Health Record Notes	<b>Benjamin Burton Kettle</b> Privilege-Separating Embedded Applications Using WebAssembly in the Plat FIDO2 Security Key	<b>Joie Y. Le</b> (February, 2023) Profile Creation with Topic Modeling and Semantic Analysis from Conversations about COVID-19 among U.S. Older Adults
<b>Caroline Linda Jin</b> A Measurement Tool for Videoconferencing User Experience	<b>Min Thet Khine</b> Causal Analysis Experiments on Log Extraction and Processing for Causal Insights	<b>Mario Leyva, Jr.</b> Refactoring Tutor: An IDE Integrated Tool for Practicing Key Techniques to Refactor Code
<b>Edward H. Jin</b> (See also S.B., Course V) Predicting Chemical Reactions at the Mechanistic Level through Deep Reinforcement Learning	<b>Quang Phuc N. Kieu</b> (September, 2022) Design and Fabrication of an Electric-Field Induction Motor	<b>Amanda Li</b> (February, 2023) BP-tree: Overcoming the Point-Range Operation Tradeoff for In-Memory B-trees
<b>Kathryn J. Jin</b> ClickTrails: Enhancing Web Navigation with Usage-Based Stylization of Clicked Web Page Elements	<b>Jin Woo Kim</b> (February, 2023) Restoring Eye Contact in Video Conferencing	<b>Amber M. Li</b> (February, 2023) Active Predicate Learning
	<b>Nathaniel J. Kim</b> A Virtual Reality System for Training Orchestra Conducting	<b>Andrea Yingjun Lin</b> Intersection Attacks on Discrete Epochs

**Daniel S. Liu**  
Decision Transformer-Based Traveling Salesman Tour Generation

**Donald D. Liu**  
Network Effect on Teams, Team Processes, and Performance

**Isabelle Y. Liu**  
(September, 2022)  
Experiments to Improve Behavior of Electrowetting Surfaces in Microhydraulic Actuators

**Kevin J. Liu**  
(See also S.B., Course XVIII)  
Truthfulness in Large Language Models

**Kyle Yijie Liu**  
(See also S.B., Course VI-3)  
Inference of Cyber Threats, Vulnerabilities, and Mitigations to Enhance Cybersecurity Simulations

**Richard T. Liu**  
MakeMu: An Online, Cross-Platform, Collaborative Web Application for Music-Making

**David Lu**  
(See also S.B., Course VI-3)  
Understanding the Robustness of Vision Models and Humans to Occlusion-Based Corruptions

**Helen Lu**  
Investigating the Effect of Data Augmentation on Conformal Prediction

**Zezheng Luo**  
(February, 2023)  
On the Expressiveness and Generalization of Hypergraph Neural Networks

**Lilian Luong**  
Learning Refinement Cost Estimators for Bilevel Planning

**Sean Mann**  
(See also S.B., Course VI-3)  
SAMoSSA: Multivariate Singular Spectrum Analysis with Stochastic Autoregressive Noise

**Xiao Mao**  
(September, 2022)  
Dynamic Programming Meets Fine-Grained Complexity

**Lingjie Mei**  
(September, 2022)  
Falcon: Fast Visual Concept Learning by Integrating Images, Linguistic Descriptions, and Conceptual Relations

**Praneet Mekala**  
(See also S.B., Course VI-3)  
Complex System Simulation Framework for Shared Augmented Reality Applications

**Amelia A. Meles**  
Case Studies in Differential Privacy for Computer Networking Research

**Kelsey N. Merrill**  
zk-Sigstore: System for Anonymous Certificate-Based Software Signing

**Adrian Leonardo Meza**  
(February, 2023)  
Creating Interactive Experiences and Visualizing Computer Science Concepts to Aid Student Understanding

**Yosef E. Mihretie**  
(September, 2022)  
Automatic Exploit Generation for Cross-Language

**Tamara Mitrovska**  
Implementing BREeze - a High-Performance Regular Expression Library Using Code Generation with BuildIt

**Abhishek Mohan**  
(February, 2023)  
Development of an End-to-End Pipeline for Custom Key-Value Extraction from Commercial Invoices

**Felipe Monsalve**  
(September, 2022)  
Building an Open Source Platform for Forensic Medical Documentation

**Manuel Morales**  
Two Case Studies on Indoor Air Quality in New York City Decarbonized Affordable Housing

**Fischer Jay Moseley**  
Manta: A Tool for On-Chip Debugging of Digital Logic

**Brandon T. Motes**  
(September, 2022)  
Automated High Throughput Characterization of Perovskite Photovoltaic Devices

**José Antonio Muguiria Iturralde**  
(February, 2023)  
Visibility Aware Navigation Among Movable Obstacles

**Pranav M. Murugan**  
Efficacy of Antibody and T cell Therapies for Highly Mutable Viruses like Human Immunodeficiency Virus

**Philip Murzynowski**  
(September, 2022)  
Optimizing Graph Neural Network Training on Large Graphs in a Distributed Setting

**Anthony D. Nardomarino**  
Modernized Power Converter Development Platform for Educational Applications

**Umarbek Sheraliyevich Nasimov**  
Averaging Neural Networks

**Hesham Nawaz**  
Causal Machine Learning to Discover Biochemical Determinants of Physical Fitness

**Diogo C. Netto**  
(February, 2023)  
Assessing and Improving Garbage Collection Performance in the Julia Programming Language

**Elaine Ng**  
(September, 2022)  
Design of High-Performance Piezoelectric Transformer-Based DC-DC Converters

**My Uyen Tran Nguyen**  
Application Considerations of Multiphase Monolithic Buck Regulators with Coupled Inductors

**Anne Ouyang**  
(See also S.B., Course VI-3)  
Understanding the Performance of Transformer Inference

<b>Carol Pan</b> Design and Performance Analysis of Frequency-Shift Keyed Transmitter using Rapidly Tunable Lasers	<b>Anushka Ray</b> (February, 2023) Machine Learning Based Flood Risk Modeling Using Features from Satellite Data, Socioeconomic Datasets, and Geographic Information	<b>Pasapol Saowakon</b> Building and Evaluating Cancer Prescreening Models with Electronic Health Records
<b>Shreya L. Pandit</b> (February, 2023) Modeling Motivation	<b>Nikhil R. Reddy</b> (September, 2022) Optimizing Parallel Performance with Work and Span in the OpenCilk Compiler	<b>Gila Rachel Schein</b> Custom Electrical Impedance Tomography Forward Models for Muscle Rehabilitation and Radiation Monitoring
<b>Fjona Parllaku</b> (September, 2022) Longitudinal Biomarkers for Onset Dementia Diagnosis: The Case of Emotion and bvFID	<b>Jordan S. Ren</b> Simulating Real-World Human Activities with VirtualCity: A Large-Scale Embodied Environment for 2D, 3D, and Language-Driven Tasks	<b>Kliment Serafimov</b> (September, 2022) HyperSketch: Language for Implementing Generic Neuro-Symbolic Program Synthesizers
<b>Lisa R. Peng</b> (September, 2022) Towards Self-Supervised Object Representations and 3D Scene Graph Based Navigation	<b>Rene D. Reyes Bardales</b> BURLAP: Bits of Useful Randomness Enable Learning with Adjustable Privacy	<b>Georgia E. Shay</b> Modular Arithmetic Tensor Multiplication Hardware Accelerator for Homomorphic Operations in Private Information Retrieval
<b>Vishnu S. Penubarthi</b> Multiple-Path Generation to Improve Autonomous Vehicle Planning	<b>Osvy Rodriguez</b> (September, 2022) Pushing the Limits of RF and Underwater Backscatter Systems	<b>Jeffrey J. Shen</b> A Generous Interface for the Discoverability of Text Collections
<b>Daniel P. Pilsbury</b> Evaluating Combinations of Player Types in the NBA	<b>Sol Estrella Rodriguez Garnica</b> SparkSim: A Causal Approach to Distributed Scheduling	<b>Peyton Douglas Shields</b> Hybrid Testing: Combining Static Analysis and Directed Fuzzing
<b>Megan Prakash</b> Culturally-Integrative Encoding: A Human-Computer Interaction Approach to Cultural Learning Interfaces	<b>Hayden MacKenzie Rome</b> The Space Race: Progress in Algorithm Space Complexity	<b>Mihir A. Singhal</b> Locally Computing Edge Orientations
<b>Sonia Purohit</b> AI Commentator: Narrating Sports Games through Multimodal Perception and Large Language Models	<b>Victor Rong</b> (See also S.B., Course VI-3) How to Pack Anything	<b>Ria V. Sonecha</b> Geometric Approaches for 3-Dimensional Shape Approximation
<b>Xiaoran Qu</b> (See also S.B., Course XVIII) Fair Selective Regression	<b>Aristofanis Rontogiannis</b> (February, 2023) B-Cell Epitope Prediction for Improved Antibody Docking	<b>Suraj Sai Srinivasan</b> (September, 2022) Towards Morphology-Agnostic Control for Soft Robots
<b>Grace Anne Quaratiello</b> An Introductory Low-Level Programming Course for Students with a Python Background	<b>Dana Rosenfarb</b> (September, 2022) Decoding Neural Processing of Linguistic Features from Large-Scale Intracranial Recordings and Naturalistic Language Stimuli	<b>Logan S. Stafford</b> (September, 2022) Inductive Cell Voltage Balancer and Model of Battery Cells and Cell Balancers
<b>Nikola Raicevic</b> (September, 2022) DPR Cluster: An Automated Framework for Deploying Resilient Stateful Cloud Micro-Services	<b>Berke Saat</b> (September, 2022) Visual Inertial Odometry with Sparse Deep Learning	<b>Jocelin Su</b> (See also S.B., Course VI-3) Unsupervised Compositional Image Decomposition with Diffusion Models
<b>Nicholas R. Ramirez</b> Leveraging Basis Alignment to Create a Generalized Multi-Relational Graph Convolution Network in the Federated Setting		<b>Viktoriya Tabunshchik</b> Learning to Code through APIs in App Inventor

<b>Grace Wen-Lian Tang</b> (See also S.B., Course VI-2) Designing an Efficient Power/Control System for a Network of Piezoelectric Speakers	<b>Ellen F. Wang</b> Capturing Worlds of Play: A Framework for Educational Multiplayer Mixed Reality Simulations	<b>Gregory Xie</b> Mechanical Intelligence Reduces Algorithmic Burden
<b>Krittamate Tiankanon</b> Improving Ink Feedback Control System for Vision Controlled Jetting 3D Printer	<b>Geoffrey Wang</b> Time-Optimal Re-planning of Quadrotor Trajectories	<b>Katherine Xiong</b> A Concept-Based Analysis of Dark Patterns in User Interface Design
<b>Britney A. Ting</b> Interpretable Modeling of Immunotherapy Response Factors	<b>Lilian Wang</b> (September, 2022) On-Device Machine Learning for Wound Screening	<b>Katherine Yang Xu</b> (February, 2023) Modeling Extreme Heat Risk in Urban Areas Using Computer Vision and Data Analysis
<b>Deborah Cheron Torres</b> An Algorithm for Characterizing Context-Governed Speech Production Patterns	<b>Margaret X. Wang</b> Non-Invasive Vision-Based Measurement of Hand Kinematics and Interaction	<b>Hao Bang Yang</b> Last Layer Retraining of Selectively Sampled Wild Data Improves Performance
<b>August Trollback</b> (February, 2023) Continuation Stealing in Julia	<b>Collin Robert Warner</b> Implementing a Persistent Offline Cache Improving Time to First Execution (TTFX) of GPU Code in Julia	<b>Janice C. Yang</b> Deep Learning MRI-based Model for Prediction of Clinically Significant Prostate Cancer
<b>Herbert M. Turner IV</b> A Machine-Learning Driven Framework for Plasma Disruption Detection in Tokamaks	<b>Megan Jian Wei</b> Composing Visual Relations with Composable Diffusion Models	<b>Ming Ying Yang</b> Evaluating the Impact of Social Determinants of Health on Prediction of Clinical Outcomes in the Intensive Care Unit
<b>Savannah B. Tynan</b> (September, 2022) Using Machine Learning Techniques on Satellite Data to Predict the Effect of Urbanization on Avian Biodiversity	<b>Anna E. Weinstein</b> Designing Student Interactions to Explore Systems Thinking in Augmented Reality	<b>Yilinn Yang</b> Explaining Concepts through Labs that Present Real-World Scenarios in an Introductory Computer Science MOOC
<b>Yuria Utsumi</b> (September, 2022) Explaining Machine Learning Models for Early Detection of Pregnancy Risk	<b>Kathryn T. Wicks</b> Coevolving Cybersecurity Adversaries for Industrial Control Systems in Failure-Prone Environments	<b>Rui Yao</b> Concentration Inequalities for Dependent Random Variables on Bayesian Networks
<b>Saaketh Vedantam</b> (See also S.B., Course VI-3) Probing Language Models for Contextual Scale Understanding	<b>Christian T. Williams</b> Simulation and Experiments for Lightning: A Photonic-Electronic SmartNIC	<b>Veerapatr Yotamornsunthorn</b> (September, 2022) Decoding Invisible 3D Printed Tags with Convolutional Neural Networks
<b>Ashika Verma</b> (September, 2022) Transformation Tolerance and Demographic Robustness of Machine-based Face Recognition Systems	<b>Benton B. Wilson</b> (September, 2022) LightShow: Abstract Representations of Music Lighting In Python	<b>Brandon W. Yue</b> Optimizing Out-Of-Memory Sparse-Dense Matrix Multiplication
<b>Eli Villa</b> Recreating Past Environments in Virtual Reality	<b>Anna Jiayi Wong</b> Knowledge Distillation for Interpretable Clinical Time Series Outcome Prediction	<b>Azreen Zaman</b> Using Natural Language Processing to Facilitate Common Student Misconception Analysis
<b>Daniel C. Vuong</b> 3D Segmentation for Fiber Break Analysis of Carbon Fiber Reinforced Polymer Tomograms	<b>William Wu</b> (September, 2022) Neural Data Shaping and Evaluation via Mutual Information Estimation	<b>Marcos Rubén Zárate Gamarra</b> (September, 2022) Effects of Extending the Length of MIT's Introduction to Computer Science Course on the Performance of Students with Little Programming Experience
<b>Timmy Z. Xiao</b> Embedding StarLogo Nova into WISE for a Seamless Student Experience		

**Ann Zhang**  
Using Starlogo Nova as a Classroom Assignment Orchestration Tool for Learning Computational Modeling in DC High Schools

**Qianqia Zhang**  
(September, 2022)  
CollaboRanger: Coordinating Differences of Individuals in Group Coordination

**Jessica Amber Zheng**  
(February, 2023)  
Machine Learning Applications for Time Series Data: Motor Anomaly Detection and Mean Arterial Blood Pressure Estimation

**Yiming Zheng**  
(See also S.B., Course VI-3)  
An Analysis of Rationale Models and Influence Functions for Interpretable Machine Learning

**Sophia Zhi**  
Unsupervised Phonetic Category Learning from Audio and Visual Input

**Howard N. Zhong**  
(See also S.B., Course VI-3)  
Learning Privacy-Preserving Transferable Video Representations

**Xinhe Zhou**  
(September, 2022)  
Investigating Reinforcement Learning and Evolutionary Computation for Games with Stochasticity and Incomplete Information

**Travis J. Ziegler**  
(See also S.B., Course VI-2)  
Applications of AI on Resource-Constrained Hardware with a focus on Anomaly Detection

**Master of Engineering in Computer Science and Molecular Biology**  
Course VI-7  
*Department of Electrical Engineering and Computer Science in conjunction with the Schwarzman College of Computing*

**Nathan Han**  
Expansion Microscopy of Cells in Suspension

**Andrew D. Hennes**  
(See also S.B., Course V)  
Continuous Evolution of Inteins with Novel Properties

**Shulammite E. Lim**  
HIPAAway: Developing Software for De-Identification and Exploring Bias in Name Detection

**Clinton S. Reid**  
Deciphering and Modelling the Action of Immune Cells using Highly Multiplexed Imaging and Deep Learning Techniques

**Master of Science in Electrical Engineering and Computer Science**

Course VI  
*Department of Electrical Engineering and Computer Science in conjunction with the Schwarzman College of Computing*

**Aziza Almanakly**  
(September, 2022)  
Towards a Quantum Network with Waveguide Quantum Electrodynamics

**Junyoung An**  
(February, 2023)  
Engineering Noise-Protected Superconducting Qubits

**Tanner Andrulis**  
Efficient, Accurate, and Flexible PIM Inference through Adaptable Low-Resolution Arithmetic

**Daniel Mengistu Ayane**  
(See also M.B.A., Course XV)  
Inference of the Novel Coronavirus 2019 in Patients Fitted with Boston Scientific Medical Hardware

**Hana N. Azzouz**  
(February, 2023)  
Second Harmonic Generation in Silicon Photonic Crystal Resonators for Quantum Optic Applications

**William Philip Banner**  
Quantum and Quantum-Inspired Optimization on a Superconducting Quantum Processor

**Adina R. Bechhofer**  
(February, 2023)  
Geometrical Optimization of Planar Nano Vacuum Channel Transistors

**Renato Berlinghieri**  
Gaussian Processes at the Helm (holtz): A More Fluid Model for Ocean Currents

**Zoey Bigelow**  
3D-Printed Multi-Langmuir Probe Device for Use on CubeSats for Plasma Diagnostics

**Mercer Renée Borris**  
(See also M.B.A., Course XV)  
AI in the Cath Lab: Implications of Clinical AI-Enabled Assistance for Intravascular Ultrasound Procedures

**Samuel Bosch**  
Artificial Neural Networks for Programming Quantum Annealers

**Matthew Lee Bowers**  
Top-Down Synthesis for Library Learning

**Alexa Reese Canaan**  
(See also S.M., Technology and Policy Program)  
Benchmarking Residential Electricity Consumption: A Utility's Demand-Response Machine Learning Approach to the European Energy Crisis

**Yuchen Chai**  
(See also M.C.P., Course XI)  
Determinants and Interventions for Physical Activity Adherence during COVID-19: A Global Study Using Machine Learning Approach

**Kartik Chandra**  
Inverse Inverse Graphics

**Dimitrios Chatzinikolis**  
(See also S.M.Arch.S., Course IV)  
Making Hands: Neural Implicit Manifold Learning of Hand Gestures

**Justin Yu-wei Chen**  
(February, 2023)  
Estimating Frequency Distributions in Data Streams

**Gabriele Corso**  
(February, 2023)  
Modeling Molecular Flexibility with Structured Diffusion Models

**David D. Covell**  
(See also SM., Course XV)  
Preventing WIPLash: Implementation of a Controlled Release Strategy to Improve Shop Performance

**Aidan Curtis**  
Constructing and Refining Representations for Efficient Visual Task and Motion Planning

**Parmida Davarmanesh**  
Analysis of 3D Genome Organization in 4-Cell Mouse Embryos

**Marc Grau Davis**  
(February, 2023)  
Numerical Synthesis of Arbitrary Multi-Qubit Unitaries with Low T-Count

**Ronald A. Davis III**  
(September, 2022)  
A Deep Learning and Signal Processing Architecture Using Frequency-Encoded RF Photonics

**Peter William Deutsch**  
(September, 2022)  
Analysis and Mitigation of Microarchitectural Side-Channels

**Qi Ding**  
Pulse Design for Two-Qubit Gates in Superconducting Circuits

**Daniel Brian Donenfeld**  
(February, 2023)  
Unified Compilation for Lossless Compression and Sparse Computing

**John Michael Drago**  
(September, 2022)  
Multiphoton Parallel Transmit MRI for Flip Angle Mitigation Without SAR Concerns

**Barış Can Ekim**  
(September, 2022)  
Scalable Sketching and Indexing Algorithms for Large Biological Datasets

**Fares Ehab Mohamed**  
**Abouelnasr Elsabbagh**  
Accelerating RTL Simulation with Hardware-Software Co-Design

**Hasan Sabri Melihcan Erol**  
On Semi-Supervised Estimation of Distributions

**Maxwell K. Fishelson**  
(February, 2023)  
No-Regret Learning in Games

**Sophie E. Fisher**  
Efficient Perturbative Framework for Coupling of Radiative and Guided Modes in Nearly Periodic Surfaces

**David Jasper Forman**  
Bayesian Time Series Structure Learning: Formulation of an Event Driven Prior Distribution

**Camilo Luciano Fosco**  
Detecting and Evidencing Doctored Videos: Showing Humans How Fake Deepfakes Are

**Adam Matthew Gierlach**  
Ingestible Electronics for High Quality Gastric Neural Recordings

**Nishad Date Gothoskar**  
(February, 2023)  
Probabilistic Programming for 3D Scene Understanding

**Gabriel J. Grand**  
Discovering Abstractions from Language via Neurosymbolic Program Synthesis

**Miela Josephine Gross**  
(February, 2023)  
Microstructural Analysis of REIG/Pt/GGGG Heterostructures

**Sarah Faye Gurev**  
Early Warning of Viral Antibody Escape from a Biologically-Informed Computational Framework

**Lelia Marie Hampton**  
Heavy-Tailed Uncertainty in Deep Learning

**Lauren Marie Heintz**  
(See also M.B.A., Course XV)  
Scenario Analysis of Profitability through Simulation of Different Business Contract Models

**Aspen Kennedy Hopkins**  
(September, 2022)  
Rhetorical Force in Explanations and Visualizations

**Zhongqiang Hu**  
(September, 2022)  
Novel Phenomena Induced by Magnon-Magnon and Magnon-Spin Coupling

**Benjamin Thomas James**  
Linking Epigenomic Regions to Target Genes

**Vindula Muthushan Jayawardana**  
(September, 2022)  
An Invisible Issue of Task Underspecification in Deep Reinforcement Learning

**Ce Jin**  
(September, 2022)  
Quantum Algorithms for String Problems

**Tian Jin**  
(September, 2022)  
On Neural Network Pruning's Effect on Generalization

**Bowen Jing**  
(September, 2022)  
Structured Diffusion Processes in Deep Generative Models

**Mansi Vipul Joisher**  
High-Performance High-Power Inductor Design for High-Frequency Applications

**Nicholas William Jones**  
(September, 2022)  
Optimizing Random Access for Information Freshness in Spatially Distributed Wireless Networks

<b>Geet Kalra</b> (February, 2023) (See also S.M., Engineering and Management) Machine Learning for Detection of Cyberattacks on Industrial Control Systems	<b>Derek Lim</b> Neural Networks on Eigenvector Data	<b>Adam Joseph Miller</b> (September, 2022) Learning Legged Locomotion by Physics-Based Initialization: Motion Imitation from Model-Based Optimal Control
<b>Pantea Karimi Babaahmadi</b> Bridging the Gap between Real-Time Video and Backlogged Traffic Congestion Control	<b>Junhong Lin</b> (September, 2022) Ultrahigh-Resolution OCT Imaging of Fine Structure Alterations in the Outer Retina	<b>Kyung Hoi Min</b> (September, 2022) Dynast: Inclusive and Efficient Quantification of Metabolically Labeled Transcripts in Single Cells
<b>Christopher John Karpovich</b> (See also S.M., Course III) Machine Learning Enabled Inorganic Synthesis Planning and Materials Design	<b>Allen X. Liu</b> (September, 2022) Learning Mixtures of Gaussians	<b>Michaela Elizabeth Murr</b> (See also M.B.A., Course XV) Predictive Models from Real-time Sensors in Process Analytical Technology Initiative in Biomanufacturing
<b>Alaa Khaddaj</b> (September, 2022) On the Role of the Source Dataset in Transfer Learning	<b>Qingyang Liu</b> (See also S.M., Technology and Policy Program) Unlocking the Potential of Hydrogen in Intermittent Electricity Systems: A Global Assessment of Levelized Cost of Hydrogen and Low Carbon Industrial Hub Profitability	<b>Weon Taek Na</b> Circumventing Memory Corruption Mitigations in the Spectre Era: Real-World Attacks and Systematic Analysis of Defenses
<b>Joonhee Kim</b> (February, 2023) (See also S.M., Technology and Policy Program) Sensitivity of the Ozone Layer, Climate, and Public Health to Changes in the Location of Aviation Emissions	<b>Ming Yang Lu</b> Visual Language Pretrained Multiple Instance Zero-Shot Transfer for Histopathology Images	<b>Quang Minh Nguyen</b> (September, 2022) Optimal Control for Wireless Software Defined Networks: Theory and Implementation
<b>Aikaterini Lamprou</b> (See also S.M. Arch.S., Course IV) The Shape of Music. Computational Specification of Hand Gestures in Piano Playing	<b>Pingchuan Ma</b> (February, 2023) Efficient Continuous Pareto Exploration in Multi-Task Learning	<b>Nassim Oufatolle</b> Towards Creating Synthetic Data Testbeds for Research
<b>Simon Hogan Langowski</b> (September, 2022) Fast, Metadata-Private Anonymous Broadcast	<b>Stephanie E. Marzen</b> (February, 2023) Germanium on Silicon Photodiodes For Back-End-Of-Line Photonic Integration	<b>Michail Orountzoglou</b> (September, 2022) Quantifying Nocturnal Itch and Its Impact on Sleep Using Machine Learning and Radio Signals
<b>Hannah Louise Lawrence</b> (September, 2022) Harnessing Symmetry and Structure in Deep Learning	<b>Surya Mathialagan</b> (September, 2022) Optimal Oblivious RAM with Integrity	<b>Umesh Janak Padia</b> (September, 2022) Quantitative Methods for Multiplexed Cellular Engineering and Directed Evolution
<b>Eunseok Lee</b> (February, 2023) Ultra-Miniaturized, Secure Wake-Up Receiver Based on THz Carrier Wave	<b>Leticia Mattos Da Silva</b> A Framework for Solving Parabolic Partial Differential Equations on Discrete Domains	<b>Avik Pal</b> On Efficient Training and Inference of Neural Differential Equations
<b>Belinda Zou Li</b> (February, 2023) Measuring and Manipulating State Representations in Neural Language Models	<b>Andrew James Mighty</b> (See also M.B.A., Course XV) Autonomous Drone Assisted Aircraft Inspections	<b>Bowen Pan</b> Dynamic Inference for the Video Understanding Model
	<b>Peter George Mikhael</b> Predicting Future Lung Cancer Risk From a Single Low-Dose Chest Computed Tomography	<b>Gabriel Joseph Pascualy</b> (See also M.B.A., Course XV) Enabling Actionable Maintenance Analytics with Ontology-Driven Natural Language Processing

**Andi Peng**  
(February, 2023)  
Aligning Human and Robot Representations

**John Clayton Rademacher, Jr.**  
Enabling Long-Range Underwater Backscatter via Van Atta Acoustic Networks

**Hamza Hussain Raniwala**  
(September, 2022)  
Design of Efficient Acoustic Interfaces for Quantum Emitters in Diamond

**Dhruv W. Rohatgi**  
(February, 2023)  
Computationally Efficient Reinforcement Learning under Partial Observability

**Branden Robert Romero**  
(September, 2022)  
Design and Fabrication of Soft, Round, High Resolution Tactile Fingertip Sensors for Dexterous Robotic Manipulation

**Edvard Ronglan**  
(See also S.M., Course II)  
Bayesian Optimization and Cartesian-Grid Simulations for Artificial Reef Design

**Rohit Priyadarshi Sanatani**  
(See also S.M.Arch.S., Course IV)  
PLACEIFY: A Data-Driven Framework for Evaluation-by-Analogy in Early-Stage Urban Analysis and Design

**Christopher Basil Scarvelis**  
(September, 2022)  
Riemannian Metric Learning via Optimal Transport

**Nicholas Benjamin Schiefer**  
(September, 2022)  
Learned Interpolation for Better Streaming Quantiles with Worst Case Guarantees

**Upamanyu Sharma**  
(September, 2022)  
Modular Verification of Distributed Systems with Grove

**Shabnam Sheikhha**  
Task Scheduling Techniques to Accelerate RTL Simulation

**Maohao Shen**  
Trustworthy Learning and Uncertainty Quantification under Constraints

**Zhiye Song**  
Algorithm and Hardware Co-optimization for Image Segmentation in Wearable Ultrasound Devices: Continuous Bladder Monitoring

**Sarah O. Spector**  
(February, 2023)  
Nonplanar Nanostructures with Planar Fabrication via Interface Engineering

**Joseph Suarez**  
The Neural MMO Platform for Massively Multiagent Research

**Haoyuan Sun**  
A Unified Approach to Controlling Implicit Regularization Using Mirror Descent

**Ariel Szekely**  
(September, 2022)  
oOS: Elastic Realms for Multi-Tenant Cloud Computing

**Benny Jun-Hong Tang**  
(See also S.M., Engineering and Management)  
VisText: A Benchmark for Semantically Rich Chart Captioning

**Max Alan Tanski**  
(See also M.B.A., Course XV)  
Making More Miles: Automating Load Selection, Truck Dispatch, and Backhaul Activation in Outbound Logistics Operations

**Han Tu**  
(See also S.M.Arch.S., Course IV)  
Analyzing Affective Responses to Virtual Spaces Using Physiological Sensors and Verbal Descriptions

**Onyinyechi Chiemela Ukaire**  
(See also M.B.A., Course XV)  
Predicting and Preventing Unsafe Events at an Enterprise

**Shelby Madison Unger**  
(See also M.B.A., Course XV)  
Analysis of Respiratory Time Series Data for Breathing Comfort Detection Prior to Sleep Onset During APAP Therapy

**Kai Yee Wan**  
(See also S.M., Engineering and Management)  
Simultaneous Localization and Calibration in a Wireless Network of Uncooperative Receivers

**Hanfeng Wang**  
(September, 2022)  
Dense Spin Arrays with Low Cross-Talk Operations for Quantum Network Applications

**Jinchen Wang**  
(September, 2022)  
THz Cryo-CMOS Link for Quantum Computing

**Rui Wang**  
(February, 2023)  
(See also S.M.Arch.S., Course IV)  
City Image: A Dynamic Perspective Using Machine Learning and Natural Language Processing

**Tongzhou Wang**  
(September, 2022)  
Geometric Properties of Learned Representations

**Weiyang Wang**  
(September, 2022)  
TopoOpt: Optimizing the Network Topology for Distributed DNN Training

**Wentao Weng**  
(February, 2023)  
Efficient Decentralized Multi-Agent Learning in Asymmetric Queuing Systems

**Yilun Xu**  
(September, 2022)  
Controlling Directions Orthogonal to a Classifier

**Lujie Yang**  
(February, 2023)  
Discrete Approximate Information States in Partially Observable Environments

**Alec Yen**  
(September, 2022)  
Interference Purcell Filter for Fast, Modular, and Hardware-Efficient Quantum Measurement

**Jason Yim**  
(February, 2023)  
Generative Models of Protein Structure and Sequence

**Abbas Zeitoun**  
Making Language Models Use Prompts

**Anna Zeng**  
Causal Graph Summarization

**Jiao Zhang**  
(February, 2023)  
(See also S.M., Technology and Policy Program)  
Improving Predictability of Wind Power Generation

**Jiaqi Zhang**  
(September, 2022)  
Active Learning for Optimal Intervention Design in Causal Models

**Rachel Y. Zhang**  
(February, 2023)  
Interactive Error Correcting Codes

**Ziyuan Zhu**  
(September, 2022)  
(See also S.M.Arch.S., Course IV)  
Unwanted Project: Speculative Design for Circularity

**Master of Science in Chemical Engineering**  
Course X  
*Department of Chemical Engineering*

**Alexander Leo Casati Judge**  
(See also M.B.A., Course XV)  
Enhancing Workflows in Biologics Drug Substance Process Development Through Automation

**Clara Troyano-Valls**  
(February, 2023)  
Advances in Single Component Adhesives Enable the Production of High-Performance Rubber Composites Containing 40 wt% Rubber Waste and 95 wt% Rubber Waste When Supplemented with Devulcanization

**Master of Science in Chemical Engineering Practice**  
Course X-A  
*Department of Chemical Engineering*

**Mohammad Ayman Alkhadra**  
(September, 2022)  
(See also Ph.D., Course X)  
Attended School of Chemical Engineering Practice in Lieu of Thesis

**Barathkumar Baskaran**  
Attended School of Chemical Engineering Practice in Lieu of Thesis

**Keith Ming Hong Cheah**  
(See also Ph.D., Course X)  
Attended School of Chemical Engineering Practice in Lieu of Thesis

**Bhavish Dinakar**  
Attended School of Chemical Engineering Practice in Lieu of Thesis

**Nathan Timothy Ewell**  
Attended School of Chemical Engineering Practice in Lieu of Thesis

**Chinmay Shripad Gangal**  
Attended School of Chemical Engineering Practice in Lieu of Thesis

**Aristotle Franklin Grosz**  
Attended School of Chemical Engineering Practice in Lieu of Thesis

**Krishna Pavan Ingava**  
Attended School of Chemical Engineering Practice in Lieu of Thesis

**Sydney Rose Johnson**  
(September, 2022)  
Attended School of Chemical Engineering Practice in Lieu of Thesis

**Justin Andrew Kaskow**  
Attended School of Chemical Engineering Practice in Lieu of Thesis

**Aya Ahmedelmukhtar Mohamedosman Khalifa**  
(September, 2022)  
Attended School of Chemical Engineering Practice in Lieu of Thesis

**Joel Chi Yui Lau**  
(February, 2023)  
Attended School of Chemical Engineering Practice in Lieu of Thesis

**Alexander H. Liu**  
(February, 2023)  
Attended School of Chemical Engineering Practice in Lieu of Thesis

**Ke-Chi Liu**  
(September, 2022)  
Attended School of Chemical Engineering Practice in Lieu of Thesis

**Xinquan Liu**  
(September, 2022)  
Attended School of Chemical Engineering Practice in Lieu of Thesis

**Ziwen Martin Ma**  
(September, 2022)  
Attended School of Chemical Engineering Practice in Lieu of Thesis

**Nicholas John Matteucci, Jr.**  
Attended School of Chemical Engineering Practice in Lieu of Thesis

**Simar Kaur Mattewal**  
Attended School of Chemical Engineering Practice in Lieu of Thesis

**Kaylee Lynn McCormack**  
Attended School of Chemical Engineering Practice in Lieu of Thesis

**Chase Novak**  
(September, 2022)  
Attended School of Chemical Engineering Practice in Lieu of Thesis

**Anthony Walter Picchi**  
(February, 2023)  
Attended School of Chemical Engineering Practice in Lieu of Thesis

**Thomas Koizumi Porter**  
Attended School of Chemical Engineering Practice in Lieu of Thesis

**Farah Omar Ramadan**  
(September, 2022)  
Attended School of Chemical Engineering Practice in Lieu of Thesis

**Theodore M. Riotto**  
(February, 2023)  
Attended School of Chemical  
Engineering Practice in Lieu of Thesis

**Katelyn Marie Ripley**  
Attended School of Chemical  
Engineering Practice in Lieu of Thesis

**Yash Samantary**  
Attended School of Chemical  
Engineering Practice in Lieu of Thesis

**Gabriel Sánchez Velázquez**  
Attended School of Chemical  
Engineering Practice in Lieu of Thesis

**Abigail Rae Taussig**  
(September, 2022)  
Attended School of Chemical  
Engineering Practice in Lieu of Thesis

**Dousabel May Yi Tay**  
Attended School of Chemical  
Engineering Practice in Lieu of Thesis

**Gerrit P. Van Ommering**  
(September, 2022)  
Attended School of Chemical  
Engineering Practice in Lieu of Thesis

**Caleb Daniel Watson**  
(February, 2023)  
Attended School of Chemical  
Engineering Practice in Lieu of Thesis

**Trent Alexander Weiss**  
Attended School of Chemical  
Engineering Practice in Lieu of Thesis

**Joshua Woodrow Wilkerson**  
(September, 2022)  
Attended School of Chemical  
Engineering Practice in Lieu of Thesis

**Zhewei Xie**  
Attended School of Chemical  
Engineering Practice in Lieu of Thesis

**Jing Ying Yeo**  
Attended School of Chemical  
Engineering Practice in Lieu of Thesis

**Master of Science in**  
**Aeronautics and Astronautics**  
Course XVI  
*Department of Aeronautics and  
Astronautics*

**Marcus Salvatore Abate**  
Performance Enhancements to  
Visual-Inertial SLAM for Robots and  
Autonomous Vehicles

**James M. Abel**  
(February, 2023)  
Comparative Assessment of the Societal  
Cost of PtL and LH<sub>2</sub> as Aviation Fuels

**Kristen Joyce Ammons**  
(September, 2022)  
Concept of Operations and Failure  
Analysis for a Complex Deployable  
CubeSat Antenna Payload

**Jacqueline E. Ankenbauer**  
Global Localization and Guided  
Relocalization in Unstructured  
Environments Using Semantic Objects

**John Thomas Clarke Barstow**  
(See also M.B.A., Course XV)  
Application of Systems-Theoretic  
Process Analysis to Work Movement in  
Production Systems

**Michael James Brown, Jr.**  
Mechanical Shock Analysis and Testing of  
an Air-Dropped Antarctic Ice Penetrator

**Matthew Charles Campbell**  
(February, 2023)  
Forced Response Measurements of  
Cavitation Dynamics in a Rocket Engine  
Turbopump Inducer

**Zhibo Chen**  
(September, 2022)  
A Tail-Integrated Boundary-Layer  
Ingesting Propulsion System for Turbo-  
Electric Aircraft

**Juliana L. Chew**  
Evaluating the Use of TROPICS  
Pathfinder Observations for Lunar  
Calibration

**Nicolette LeAnn Clark**  
Reduced-Order Atmospheric Density  
Modeling for LEO Satellite Orbital  
Reentry Prediction

**Sarah Elaine Demsky**  
Analysis of Double Cropping to Expand  
Sustainable Aviation Fuel Production in  
the United States

**Raphael Jean Dijoud**  
Ignition by Nanosecond Repetitively  
Pulsed Discharges

**Geoffrey Ding**  
Privacy Risk Mitigation Strategies for  
Drone Package Delivery

**James Patrick Dingley**  
Satellite Market Modelling with Agent-  
Based Computational Economics

**Jad A. Elmourad**  
(February, 2023)  
Evaluating Fuel-Climate Tradeoffs in  
Contrail Avoidance

**Daniel Erkel**  
(February, 2023)  
(See also S.M., Technology and Policy  
Program)  
The Success of Emerging Space Actors:  
Effective Strategies in the NewSpace Era

**Alexandra Mae Forsey-Smerek**  
(September, 2022)  
Situational Cueing for Trust Calibration  
in Automated Systems

**Andres Garcia Jimenez**  
Quantitative Assessment of the Frictional  
Ignition Resistance of Metals in High-  
Pressure Oxygen

**Julia C. Gaubatz**  
Design and Development of Stability and  
Control Systems for Small, Deployable  
Aircraft

**Sideena Kateri Celestine Grace**  
Investigating the Impact of  
Communication Delay on Mission  
Control as an Effective Team Member  
with the Crew

**Carla Grobler**  
CO<sub>2</sub> and Public Health Impacts of US  
Residential Heating Electrification

**China Hagström**  
(February, 2023)  
Early Plume Development and NO<sub>x</sub>  
Chemistry in LO<sub>x</sub>/H<sub>2</sub> and LO<sub>x</sub>/CH<sub>4</sub>  
Liquid Rocket Engines

<b>Jacob Frederick Harburg</b> (February, 2023) Improvements to LEO Tracking on The Portable Telescope for Lasercom	<b>Shu-Yu Lin</b> Development and Validation of Wearable Sensor System for Quantifying Proprioceptive Adaptation	<b>Codrin P. Oneci</b> Distributed Estimation Algorithms for Autonomous Systems
<b>Shravan Hariharan</b> Laboratory Characterization of Mars In-Situ Resource Utilization (ISRU) Using the Mars Oxygen ISRU Experiment (MOXIE) FlatSat Testbed	<b>Peter Yu-Farn Liu</b> (See also S.M., Technology and Policy Program) System Dynamics Modeling and Analysis of Continuous Production Agility: Policies and Enablers for Resilient Satellite Constellations	<b>Kaleb Daniel Overby</b> Development of Electrodes for an Electrostatically Actuated Mesh Reflector
<b>Hanna-Lee Nava Harjono</b> Development of a Throttleable Attitude Control Scheme for Electrospray Propulsion Systems	<b>Dominic R. Maggio</b> Visual Location for Spacecraft Entry Decent and Landing	<b>Jennifer Lindsey Pandolf</b> (See also M.B.A., Course XV) Investigation of Model-Based Systems Engineering Integration Challenges and Improvements
<b>Kyle James Horn</b> (February, 2023) Adaptive Oxygen Production of the Mars Oxygen ISRU Experiment (MOXIE) through Feedback Control of Pressure Sensor 4	<b>Aaron R. Makikalli</b> Aerodynamic and Thermal Considerations for an Antarctic Ice Penetrator	<b>Celina Pasiecznik</b> Evolutionary Debris Modeling of LEO and Cis-Lunar Space
<b>Asha Kailin Jain</b> On the Atmospheric Saliency of Space Debris Reentries: Estimating the Distribution, Lifetime and Radiative Forcing of Reentry-Ablated Alumina	<b>Eduardo Maristany</b> (See also M.B.A., Course XV) Economic Analysis of 3D-Printed Ceramic Cores for Gas Turbine Investment Castings	<b>Julia Pasiecznik</b> Koopman Operator Theory Applied to Lambert's Problem with a Spectral Behavior Analysis
<b>Paul Mitchell Johnson</b> (See also M.B.A., Course XV) Parametric Study of Environmental Testing in Satellite Manufacturing	<b>Spencer Thomas McDonald</b> (See also S.M., Transportation) Optimizing Urban Air Mobility Operations in a Corridor Network	<b>Nicholas Joseph Perovich</b> (September, 2022) Design Studies for Future EAD-Propelled Aircraft
<b>Alexander P. Koenig</b> A Systems Framework for Multi-Messenger Astronomy	<b>Shervin Mehryar</b> State Estimation for Future Power Networks	<b>Victor L. Qin</b> Market Mechanisms for Service Provider Operations in Advanced Air Mobility
<b>Scarlett E. Koller</b> (See also M.B.A., Course XV) Applying Satellite Broadband Connectivity with Edge Computing to New Industry Verticals	<b>Alexandra R. Meredith</b> (February, 2023) Applying Rotation-Equivariant Deep Learning to Cloud and Road Segmentation in Satellite and Aerial Imagery	<b>Zengyi Qin</b> (September, 2022) Learning Large-Scale Multi-Agent Control with Safety Certificates
<b>Kota Kondo</b> Multiagent Trajectory Planning Under Communication Delay	<b>Alex S. Miller</b> Impact Analysis and Design Development for Air-Dropped Antarctic Seismo-Geodetic Ice Penetrator	<b>Chirag Raghuveer Rao</b> (September, 2022) Age of Information for Broadcast and Collection in Spatially Distributed Wireless Networks
<b>Ngoc Thuy Minh La</b> (February, 2023) Human-Aware AI Assistant	<b>Youngjae Min</b> One-Pass Learning via Bridging Orthogonal Gradient Descent and Recursive Least-Squares	<b>Nicholas Aaron Rober</b> Towards Tight and Scalable Backward Reachability Analysis for Neural Feedback Loops
<b>Dongjoon Lee</b> Multi-fidelity Design with Incremental Optimization Guided Decisions	<b>Jeong Suk Oh</b> Sensitivities of Atmospheric Composition to High-Altitude Vehicles Emissions	<b>Louis Anh Tài Robion</b> Improving the Temporal Consistency of Satellite-Based Contrail Detections Using Ensemble Kalman Filtering
<b>Kanghyun Lee</b> Influence of Turbofan Engine Design on Aircraft Environmental Impact		<b>Diego Andre Salgado Bobadilla</b> Comparative Energy Efficiency Analysis for Hydrogen and Jet Fuel in Next-Generation Long-Haul Aircraft

<b>Saba Zareen Shaik</b> Single-Polarity Ion Electrospray Propulsion	<b>Haley Elizabeth Solera</b> Python-Based Tools for Characterizing Geosynchronous Satellite Behavior and Evaluating Maneuver Prediction Techniques	<b>Thomas Ryan Stuart</b> (See also M.B.A., Course XV) Defining Core Manufacturing Capabilities in an Aerospace Company	<b>Dun Yuan Tan</b> Implications of Intermittency of Renewable Energy on Power-to-Liquid SAF production	<b>Marek Travnik</b> (September, 2022) A Data-Driven Approach for Predicting and Understanding Braking Conditions of Landing Aircraft	<b>Tesla Del Mare Wells</b> (February, 2023) Using Qualitative Preferences to Guide Schedule Optimization	<b>Andrew Scott White</b> (September, 2022) Trade-Space Analysis of Liquid Hydrogen Propulsion Systems for Electrified Aircraft	<b>Joshua Kevin White</b> (September, 2022) Analysis of Continuous Tensor-Train Methods for Optimal Control Problems with the Ornstein-Uhlenbeck Operator	<b>Emily Jane Williams</b> Assessment of Wall-Modeled Large-Eddy Simulation for High-Speed Flows and Novel Modeling Strategies	<b>Kathleen Shiyin Xu</b> Differential Drag-Based Maneuvering for the CubeSat Laser Infrared Crosslink (CLICK) Mission
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<b>Master of Engineering in Biomedical Engineering</b> Course XX-P <i>Department of Biological Engineering</i>	<b>Karenna Jade Groff</b> Generation of Focal <i>Depdc5</i> Knockout Mouse Model and Implications for Focal Epilepsy	<b>Atharv V. Oak</b> (See also S.B., Course XVIII) ILF3 Links mRNA Decay in the Cytoplasm to Transcriptional Adaptation	<b>Master of Science in Biological Engineering</b> Course XX <i>Department of Biological Engineering</i>	<b>Malek Kabani</b> (February, 2023) Investigating the Neurological Effects of SARS-CoV-2 Infection on the Brain	<b>Master of Science in Nuclear Science and Engineering</b> Course XXII <i>Department of Nuclear Science and Engineering</i>	<b>Kristina</b> Neutronic Analysis of Horizontal-Compact High Temperature Gas-Cooled Reactor	<b>Santiago Andrade Aparicio</b> (See also M.B.A., Course XV) Technical and Commercial Feasibility Assessment of Nuclear Microreactors as a Clean Energy Source for Data Centers and Mining Sites	<b>Loukas L. Carayannopoulos</b> (February, 2023) (See also S.B., Course XXII-ENG) Simulation of Irradiation of a Molten Salt Loop at the MIT Reactor	<b>Lorne Russell Cohen</b> Modelling of Graphite Elements and Low Enriched Fuel Assemblies for a High Temperature Gas-Cooled Reactor
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<b>Maximilien Fadi Debbas</b> (September, 2022) An Investigation into Topological Crystals and Flat Band Systems	<b>Zoe Lilah Fisher</b> (See also S.B., Course XXII-ENG) Annealing Cryogenically Irradiated High Temperature Superconductors with Current Pulses
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<b>Edward James Garcia</b> (February, 2023) Scaling Siting Criteria and Identifying Alternative Licensing Pathways for Micro-Reactors within the Existing Regulatory Framework
--

<b>Lindsey Anne Kennington</b> (See also M.B.A., Course XV) A Techno-Economic Analysis of Hydrogen, Electric, and Diesel Fuel in Medium - and Heavy-Duty Transportation Applications
--

<b>Chumani Mokoena</b> An Investigation of Major Component Disposal Costs for Advanced Nuclear Reactors
--

<b>Michael Kenneth Moore</b> Design Options to Address Submersion Criticality for Low-Enriched Uranium Nuclear Thermal Propulsion Rocket
---

<b>Isabel Naranjo De Candido</b> (February, 2023) Staff Minimization Strategy for Micro-Reactors
--

<b>Gyutae Park</b> Increasing Cermet Fuel Thermal Margin with Thoria for Nuclear Thermal Propulsion
--

<b>Daniel Robert Reinfurt</b> Uranium Enrichment Signatures of Fluorinated Epoxy
---

<b>Kevin Tang</b> (February, 2023) Evaluation of Novel Laser-Skived Microbridges for Improved Characterization of REBCO Superconductor
--

**Julia of Witham**  
Mission and System Design for In-Situ Resource Utilization in the Outer Solar System Using Nuclear Propulsion Technologies

**Yinjie Zhao**  
(September, 2022)  
LEU-HEU Mixed Core conversion analysis and Coolant System Upgrade for the MIT Research Reactor

**Master of Applied Science in Supply Chain Management**  
*Program in Supply Chain Management*

Rohan Alexander

Osama Alhasan

Moutaz Faisal Ali

Geoffrey J. Allen

Pablo Andres Barros Gomez

Amina Benhassine

Elizabeth M. Bruttomesso

Francisco Andres Calero Mantilla

Tulio Rene Castillo Ovalle

Kefan Chen

Yumeng Chen

Yu-Ta Chen

Yeonjoon Choe

Luis Rodrigo Dávila Novoa

Morgan Jessica DeHaan

Nauryzkhan Dildabekov

Donald Inyene Ekanem

Richard Augustus Elmquist III

**Mostafa Khedr Mohamed Khedr Elz-anfaly**

**Andrea Esposito**

**Emma Eustis**

**Lanyan Feng**

**Julia Fernandez del Valle y Rivera**

**Kristen Michelle Foster**

**Pu Gao**

**Harry Pomeroy Hawkes III**

**Brian James Hinkamp**

**Szuya Huang**

**Shoichi Ishida**

**Marwan Ismael**

**Hassaan Jaffar**

**Rohit Kapila**

**Yujia Ke**

**Bishwajit Kumar**

**Yien Lai**

**Madeleine M Y Lee**

**Lydia Lim**

**Kirill Lobanov**

**Romain Lucas**

**Joseph Anthony Lynch**

**Nayantara Mehta**

**Haoxin Mei**

**Melania Nina Meleney**

**Gianmarco Alexander Merino Sandoval**

**Andrew Mohn**

**Sean Oakley Moran**

**Anumanth Sarma Murugesan**

**Marcela Navarro Lara**

**Sneha Neversu**

**Kyle Patrick O'Brien**

**Jorge Enrique Oliver Verastegui**

**Shruti Pant**

**Adriele Pradi**

**Ritesh Rai**

**Kaitlyn Danielle Lee Rakestraw**

**Matthias Schumm**

**Boping Shan**

**Kamran Iqbal Siddiqui**

**Charles Edward Snow**

**Hannah Justine Sonnenberg**

**Furqan Khalil Syed**

**Gabriel Szuma**

**Mauricio Arturo Taborga Claure**

**Mehdi Tagorti**

**Yusuke Tanaka**

**Maria A. Tartaglia**

**Prateek Tewari**

**Nicolò Tosi**

**Samara Vilar da Costa**

**Yin Wang**

**Yusong Wei**

**Shobhit Kumar Yadav**

**Xinjian Zheng**

**Master of Science in  
Engineering and Management**  
**Program in System Design and  
Management**

**Zenia Adiwijaya**

Revamping Manufacturing Systems:  
Utilization of Data Driven Models,  
Interpretable Machine Learning, and  
Data-Product Stakeholder Flow Analysis

**Javier Agüera Reneses**

(February, 2023)  
SOCIALIC: A Novel Role-Playing  
Simulation Exercise for Ethics Teaching in  
Higher Education Institutions

**Grace S. Ahn**

Bespoke Design Meets Systems at Scale:  
A Design Study with Judy Heumann

**Abdulrahman Saad Al Mesfer**

Forecast-Driven Inventory Management  
for the Fast-Moving Consumer Goods  
Industry

**Hassaam Ali**

(February, 2023)  
MIT-Middle East Multi-Party  
Collaboration

**Kim Whatt Gary Ang**

(September, 2022)  
Using a Cyber Incident Report to Detect  
and Mitigate Cyber Vulnerabilities in  
Industrial Control Systems

**Jerome Arul**

Method to Design and Fabricate an  
Octahedral-Tetrahedral Spaceframe from  
Repurposed Scaffolding

**Anthony R. Atto**

(September, 2022)  
The Future of Technology Bargaining in  
the Information Age

**Matthew Brian Barnes**

(September, 2022)

Energy Transition Impacts for Workers:  
A Comparative Analysis of Differences  
in Energy Transition Policies in Germany  
and Appalachia and their Impact on Coal  
Employment Outcomes

**Saloni Bedi**

Developing and Testing a Portable Device  
for Tracking Small Deviations in the  
Hydration Levels of a Human Body

**Charles Keeler Brown**

Conquering the Challenge of Reliability:  
Text Mining to Map Trends in Reliability  
Engineering Literature

**Andrew Michael Canady**

(February, 2023)

Safety in U.S. Navy Navigation Applying  
STAMP Processes to Surface Ship  
Collisions

**Erh Chieh Chang**

Supplier Development Framework in  
Supply Chain Cybersecurity Evaluation  
of Small and Medium-Sized Enterprises

**Doo Hyun Mark Chung**

(September, 2022)

Techno-Economic Assessment of  
Electrolytic Hydrogen Production under  
Dynamic Operations

**Sarah Bryson Coyle**

(September, 2022)

Hydrogen Storage Potential of the Salina  
Group, Appalachian and Michigan Basins

**Alexander S. Crease**

Climate Change Conversations with  
Children: Making Sustainability  
Meaningful, Tangible, and Actionable  
(with N. Singhasaneh)

**Anna Nadia Cybulsky**

(February, 2023)

Techno-Economic Modeling and  
Optimization of Hydrogen Supply Chain  
for Aviation Demand

**Aidana Daulbayeva**

Behavioral Design for Emotional  
Intelligence: Leveraging Affective  
Computing in Medical Education for  
Improved Care for Substance Use  
Disorders

**Robert Lee Day**

Operational Analysis and Mission  
Engineering: A Strategy and Framework  
to Analyze any Industrial Ecosystem

**Carmen Maria de la Sierra Cauley**

Economics of Renewable Electricity:  
Lessons for Potential Investors from the  
California and Texas Electricity Markets

**Joshua Michael DiPietro**

(September, 2022)

Flexible in Engineering Design Approach  
to Fleet Management

**Jake Drutchas**

(February, 2023)

Entrepreneurship By Design

**Dipti Garg**

(February, 2023)

Representation and Management of  
Scope through Project Lifecycle

**Kurt Drew Geiger, Jr.**

(September, 2022)

Exploring Career Pathways within an  
Organization Based on the Assessment of  
Prior Experience

**Sahas Gembali**

Physical Transformation: Adding  
Physical Devices to Digital Products to  
Improve the User Experience

**Margaret Calliope Georgiadis**

(See also M.B.A., Course XV)

Facilitating Multi-Perspective-Taking in  
Adults: A Field Study

**Mervine Anand Govada**

A Systems Approach to Understanding  
Challenges in Preserving User Privacy.  
And How Federated Learning and  
Differential Privacy Enables Enterprises  
to Take a Consumer-Centric Approach  
and Reduce Privacy Concerns.

**Akshita Goyal**

Integrated Systems and Human-Centered  
Design Approach for Awareness, Early  
Diagnosis and Treatment Adherence of  
ADHD and ADD for Children of India

**Neil Kelsey Hallock**

An Experimental Design to Assess Team  
Performance Through Shared Mental  
Models

<b>Bruce Allen Hecht</b> (February, 2023) Engagement Mechanisms in Transit-Oriented Development Using Model-Based Workshops of Sustainable Community Development	<b>Chiwon Lee</b> (February, 2023) Understanding Gen-Z College Student Needs Regarding Social Media Apps through a Case Study on Bondit, a Social Media App for College Students	<b>Adam Nahari</b> (February, 2023) Harnessing External Data in Public and Private Market Investing
<b>Andre Jermaine Hicks</b> (September, 2022) System Analysis of a Numerical Well Design Optimization Process	<b>Sheng-Hung Lee</b> (September, 2022) (See also S.M., Course II) Human-Centered System Design for an Aging Population: An Experimental Study of Footwear Design	<b>Kosuke Nakajima</b> Evaluation of Real-Time Bridge Monitoring and Repair Management System Using Digital Twin Framework
<b>Seoyeon Tara Hong</b> (September, 2022) Decarbonizing the Global Shipping Industry: Evaluating Pathways for Alternative Fuels	<b>Jason John Lehman</b> (September, 2022) Driving Optimization Centered Upstream Petroleum Operations in the Denver-Julesburg Basin	<b>Masumi Nomura</b> Analysis and Comparison of the Creation of University Spin-off Startups in Deep Tech between the United States and Japan
<b>Geet Kalra</b> (February, 2023) (See also S.M., Course VI) Machine Learning for Detection of Cyberattacks on Industrial Control Systems	<b>Damien Gordon Lewke</b> Enhancing Cyber Resilience through Benchmarked Cyber Metrics	<b>Tatsuya Osugi</b> Systems Architecting the Future of Construction Enterprise for Intrapreneurship
<b>Toru Kawasaki</b> Analyzing the Future Architecture of Steelmaking Enterprise in Japan	<b>Shao Cong Lim</b> (September, 2022) A Case for Pre-Trained Language Models in Systems Engineering	<b>Katherine Patricia Papageorge</b> (September, 2022) A Systems Approach to Understanding Gender Inequity in Engineering
<b>Eunah Kim</b> Assistive Personal Robots for Older Adults: Bridging the Divide Between Robotic Technology Development and End-Users in Practical Applications	<b>Sabrina Woro Anggraini Listyo</b> Product to Platform Strategy: Transitioning COVID-19 Citizen Tracing Product to Centralized Telemedicine Platform in Indonesia	<b>Jose Ignacio Parada</b> (February, 2023) Cybersecurity in Machine Learning
<b>James Jaehak Kim</b> Using a System-Theoretic Approach for Cyber Mission Assurance of the Royal Canadian Air Force Over the Horizon Radar System	<b>Jason Paul Lowery</b> (February, 2023) Mutually Assured Preservation: Bitcoin and the Future of National Strategic Defense	<b>Jason V. Paul</b> (September, 2022) Strategic Management of R&D Capabilities with Agent Based Modeling
<b>Thitisak Kittipeerapat</b> (September, 2022) A Holistic View of Factors Impacting the Adoption of Lessons Learned Management Systems	<b>Eishi Majima</b> A Case Study of Project Management of COVID-19 Vaccination in Japan	<b>Alexander James Pinigis</b> Systemic Issues of Evaluating and Retaining Army Talent
<b>Jarod Roan Kramer</b> (See also Naval E., Course II) Investigating the Use of Inductive Transfer Learning and RNN to Quantify Extreme Event Statistics of Ship Motions	<b>Khaalid Persaud Juggan McMillan</b> (February, 2023) Data Center Carbon Accounting, Enterprise Digital Presence, and Sustainable Computing Trends	<b>Orson Samuel Porter</b> (February, 2023) A Systemic View to Acquiring Innovation: How the US Air Force Invests in the Private Sector to Advance Innovation
<b>Heng Huan Allan Law</b> (February, 2023) How Can Companies Adopt DT (Digital Twin) Technologies to Minimize Physical Prototyping by Maximizing Virtual Development and Testing within the Digital Twin Models?	<b>Ryan Gerard Montvydas</b> Applying Systems Theory to Analyze Cyber Resiliency of Naval Engineering Systems	<b>Andrea Quiros Balma</b> Responsible Design: Design Methods for Anthropocentric Sustainable Futures
		<b>Benjamin Sterling Radelet</b> (September, 2022) Quantifying Technology Management in the Energy Transition: Evidence from the Oil & Gas Industry

<b>Jahanara Rahemtulla</b> Assessing the Impact of Vaccinations and AI-Based Screening on Cervical Cancer Prevention, in Low Resource Settings	<b>Arman Tanzharikov</b> (September, 2022) Reduction of Greenhouse Gas Emissions Using the Sustainable Systems-Thinking Approach by Utilizing Cost-Effective Hydrogen Production with a Lower Environmental Footprint	<b>Emma K. DeSoto</b> Course I (September, 2022) Evaluating the Impacts of Mobility-as-a-Service in Prototypical North American Cities via Agent-based Simulation
<b>Amir Ali Ravassipour</b> (September, 2022) Strategic Funding of Emission Reducing Projects of a Crude Oil Refining Plant	<b>Mark Joseph Tozzi</b> (September, 2022) Strategic Value of Flexibility: Case of Execution and Technology Choice for Carbon Capture	<b>Xiaotong Guo</b> Course XI Enhancing the Shared Mobility Market: Dissolving Market Segmentation and Understanding Market Friction
<b>Evelyn Ruff</b> Surrogate Neural Networks for Efficient Simulation-Based Trajectory Planning Optimization	<b>Abhishek Uppal</b> Investigate and Analyze the Impact of Electronification in Fixed Income Bond Markets and Equity Stock Markets via ARIES Framework	<b>Yuzhu Huang</b> Course XI Understanding Bus Operations Using High-Resolution Vehicle Location Data
<b>William Kolbe Patrick Schwab</b> (September, 2022) Carbon Capture Technology for Natural Gas Power Plants: Selection Techniques and Implementation Strategies for a Real-World Scenario	<b>Manasi Atul Vaidya</b> Data Privacy Communications in Smart Home Technology for Older Adults: Evaluation, User Attitudes and Concerns, and Design Implications	<b>Spencer Thomas McDonald</b> Course I (See also S.M., Course XVI) Optimizing Urban Air Mobility Operations in a Corridor Network
<b>Shi Shu</b> (February, 2023) The Impact of Mental Model in Older Adults Experience of Digital Games	<b>Ignacio Salvador Vazquez Rodarte</b> (September, 2022) Instrumenting Sensemaking for Engineering Teamwork	<b>Daniel Michael O'Neil, Jr.</b> Course XI Post-COVID Transit Fares for Riders and Recovery
<b>Natha Singhasaneh</b> Climate Change Conversations with Children: Making Sustainability Meaningful, Tangible, and Actionable (with A. Crease)	<b>Jordan S. Wachs</b> (February, 2023) Development of a Cislunar Space Situational Awareness Architecture Using Real Options to Address Cost and Performance Uncertainties	<b>Emma Pauline Swarney</b> Course XI Measuring Place-Based Transit Service Equity in Chicago
<b>Akshit Singla</b> (September, 2022) Systems Thinking Applied to Digital Divide	<b>Kai Yee Wan</b> (See also S.M., Course VI) Simultaneous Localization and Calibration in a Wireless Network of Uncooperative Receivers	<b>Naval Engineer</b> Course II <i>Department of Mechanical Engineering</i>
<b>Pedro Soto</b> (September, 2022) Architecture Evaluation for Extended Reality Devices	<b>Eric James Young</b> (See also Naval E., Course II) Rapidly Estimating Swarm Resource Needs Through Autonomous Simulation	<b>John Harris Cathcart IV</b> (See also S.M., Course II) Integration and Implementation of Conceptual Design Tools for Naval Warships
<b>Zachary Sternberg</b> Information Design Considerations for Effective Communication of Sustainability Metrics	<b>Master of Science in Transportation</b>	
<b>Koji Takahashi</b> Developing Enterprise Architecture for Railway Machinery Engineers	<b>Paris Charitatos</b> Course XI Splitting Rides in Transit Deserts: Ride-Splitting Dynamics in Chicago Before, During and After the Pandemic	<b>Kelsey O'Brien Cathcart</b> (See also S.M., Course II) Detrainment and Settling of Sediment in Turbidity Currents: A Study to Inform Deep Seabed Mining
<b>Benny Jun-Hong Tang</b> (See also S.M., Course VI) VisText: A Benchmark for Semantically Rich Chart Captioning	<b>Camilo Duque Londoño</b> (See also S.M., Course II) A Hydrogel Adhesive Marine Sensing System: Design, Mechanism and Applications	

**Jarod Roan Kramer**

(See also S.M., Engineering and Management)

Investigating the Use of Inductive Transfer Learning and RNN to Quantify Extreme Event Statistics of Ship Motions

**Lucas Kistner Stone**

(See also S.M., Course II)

Oscillating Energy Harvester for UUV Applications

**Jillian Marie Uzoma**

(See also S.M., Course II)

Predicting Interactions Between Energy Saving Devices on Surface Ships

**Alexander Joseph Wunderlich**

(See also S.M., Course II)

Feasibility Study of a Linear Generator Wave Energy Converter With Adaptive Bistable Control

**Eric James Young**

(See also S.M., Engineering and Management)

Rapidly Estimating Swarm Resource Needs Through Autonomous Simulation

**Electrical Engineer**

Course VI

*Department of Electrical  
Engineering and Computer Science*

**Erik Karl Saathoff**

(February, 2023)

Inrush Transient Generation and Line Impedance Estimation (S.M. thesis, February 2021)

**Master of Engineering in  
Computer Science, Economics,  
and Data Science**

Course VI-14

**Dina A. Atia**

Evaluating Bias in Machine Learning-Enabled Radiology Image Classification

**Orrie B. Page**

How More Equitable Assignment Mechanisms Can Increase School-level Segregation

## SCHOOL OF HUMANITIES, ARTS, AND SOCIAL SCIENCES

### Master of Science in Economics

Course XIV

*Department of Economics*

**Indira Puri**

(See also Ph.D., Course XIV)

Simplicity and Probability Weighting in Choice Under Risk

### Master of Applied Science in Data, Economics, and Development Policy

Course XIV

*Department of Economics*

**Kumar Abhinav**

(September, 2022)

**Faris Abdulaziz AlWohaibi**

(September, 2022)

**Yann Bourgeois**

(September, 2022)

**Mohamed El Habib Chenguiti Ansari**

(September, 2022)

**Chun Man Chow**

(September, 2022)

**Amschel Nathaniel de Rothschild**

(September, 2022)

**Tomáš Dulka**

(September, 2022)

**Chuka Dean Ezeoguine**

(September, 2022)

**Tom Mansfield Harris**

(September, 2022)

**Massimiliano Dhikara Hasan**

(September, 2022)

**Rodolfo Ilizaliturri Lopez**

(September, 2022)

**Michael Adam Jarrell**

(September, 2022)

**Shahzor Khan**

(September, 2022)

**Angelo Kisil Marino**

(September, 2022)

**Laura Lahoz González**

(September, 2022)

**Nathan Lazarus**

(September, 2022)

**Cheng Wei Lee**

(September, 2022)

**Luis Ernesto Lopez de Rivera Munoz**

(September, 2022)

**Leonardo Enrico Marchioro Mendes**

(September, 2022)

**Farhad Panahov**

(September, 2022)

**Emily Ann Porter**

(September, 2022)

**Anjaly Simon Poruthoor**

(September, 2022)

**Eder Alfonso Redondo Santos**

(September, 2022)

**Cyrus Graham Reginald**

(September, 2022)

**Max Benjamin Resnick**

(September, 2022)

**Ilias Suvanov**

(September, 2022)

**Marc G Tan**

(September, 2022)

**Claudia Marcela Ulloa Zuluaga**

(September, 2022)

**Michael Ya Akov van Niekerk**

(September, 2022)

**Anna Vdovina**

(September, 2022)

**Linxi Wang**

(September, 2022)

### Master of Science in Political Science

Course XVII

*Department of Political Science*

**Lauren David**

(September, 2022)

Needles in a Haystack: Perceptions of Deservingness on the Implementation of Harm Reduction Programs in the American Midwest

**Milain David Fayulu**

(September, 2022)

Asymmetric Network Ties to Elite American Universities Create Differential Access to Venture Capital in Africa

**Julian Todd Rippy**

(September, 2022)

A Mixed-Methods Approach to Force Estimation in Military Operations Other Than War

### Master of Science in Science Writing

Course XXIW

*Program in Writing and Humanistic Studies*

**Leah Campbell**

(September, 2022)

The Toxic Legacy of the Gold Rush

**Iris Megan Crawford**

(September, 2022)

A Solution in the Sea. Commercial Kelp Farming was Recently Legalized in New York State - Can it Help Solve Environmental and Economic Woes?

**James Ryan Dinneen**

(September, 2022)

The Primary Prevention: What's Causing the Rise in Type 1 Diabetes—And Can it be Stopped?

**Shelby Nicole Evergreen**

(September, 2022)

Think 'Zebra'

**Emma Grace Foehringer Merchant**  
(September, 2022)  
'Burning Issues': Incarcerated Firefighting Programs in the U.S.

**Maria Anjelika Parazo Rose**  
(September, 2022)  
When the Waters Came

**Grace Carolyn van Deelen**  
(September, 2022)  
The Spirit in the Science: Wild Rice Conservation through Tribal-University Partnerships in Minnesota

**Shafaq Zia**  
(September, 2022)  
Scrambling for Care: Autism in Rural America

**Master of Science in Linguistics**  
Course XXIV  
*Department of Linguistics and Philosophy*

**John Joseph Dennis**  
Mi'kmaq Motherese Language

**Masa Mocnik**  
(September, 2022)  
Existential Belief and Epistemic Modals

**Master of Science in Comparative Media Studies**  
*Program in Comparative Media Studies*

**Srushti Santosh Kamat**  
(September, 2022)  
Virtual Production and Atmospheres of Change

**Ambar Reyes**  
(September, 2022)  
Los Delivreros: Labor, Platforms, and Transnational Flows of Information in Latin American Gig Workers

**Annis Rachel Sands**  
(February, 2023)  
Eliminating the Thorn in the United States' Side: Media Propaganda and the Grenada Experiment

**Master of Science in Science, Technology, and Society**  
Course STS  
*Program in Science, Technology, and Society*

**Steven Gonzalez**  
(September, 2022)  
Ethnography as Craft: Rendering the 'Emic' Space of a Server Farm Using a 3-D Printer

**Rustam Khan**  
Apartheid in Schaarbeek: Belgian Migrant Labor and Human Rights in Europe's Carbon Transition, 1945-1973

**Yui Leh Timothy Loh**  
(September, 2022)  
Language in Medical Worlds: Hearing Technology for Deaf Jordanian Children

**Gabrielle Lydia Marie Robbins**  
(September, 2022)  
X Disease | Disease X: Medical Mystery-Solving and Epidemiological Change

**Chayanon Ruamcharoen**  
(September, 2022)  
Tropicalizing the Portable Radio

**Caroline Celeste White-Nockleby**  
(February, 2023)  
"A Resource in and of Itself": Grid-Scale Batteries and the Politics of Storage

**Di Wu**  
(September, 2022)  
Assisting Technology: Disability Expertise and Labor in Artificial Intelligence (AI) Data Work in China

## SLOAN SCHOOL OF MANAGEMENT

<b><u>Master of Business Administration</u></b>	Omar Hans Figueroa	Ya Yui Sandra Lam
Course XV-A (Sloan Fellows) <i>Sloan School of Management</i>	Jose Oswaldo Gonzalez Moreno	Luís da Cunha Lamb
Deepti	Taira Goto	Krispian Caspar Lawrence
Mahelaqua	Kamila Theresa Guerra	Chenise Roddey LeDoux
Nahoko Abe	Gerardo Manuel Guerrero Quichiz	Hyon Lee
Taiwo Oluwamayowa Ajetunmobi	Seema Gupta	Kung-Yun Lin
Keisuke Akiyoshi	Mikkel Gabriel Manahan Gutierrez	Li Lin
Keith Edwin Anderson, Jr.	Soungah Serephina Ha	Cameron William Lothridge
Raafet Amine Azzouz	Kevin Christopher Hansom	Gianfranco Lucchesi
Aizhan Balabatyrova	Kazuto Christopher Higuchi	Ryan Charles Lynch
Guilherme Nunes Martin Bianco	Candice Marie Hinds	Dwip Ratan Mahajan
Amruta Madhav Borwankar	Laura Elaine Holberger	Mohammad Suleman Jehangir Malik
Andy Aristides Canales	Ben Benjamin Ifrach	Hila Marcus
Bindu Priya Chanagala	Yoshihide Iijima	Morgan Marie McCray
Daniel Charles	Karen Kumakura Inomata	Masanori Misu
Joel Chastain	Aditi Jha	Michael Geoffrey Morlino, Sr.
Muhammad Ehsan Che Munaaim	Ki Youn Jung	Mahua Mukherjee
Pengfei Chen	Ifeoluwakiitan Kalejaiye	Ryota Nakamura
Karen da Silva Mendonca Correa	Jihoon Kim	Wu Wei Ngau
Kirsten Dotson	Thomas Kyumwa Kisimbi	Kentaro Ode
Rod Ebrahimi	Li Min Janicia Koh	Kentaro Ogawa
Osayuki Daniel Eguasa	Yuka Kojima	Yuri Ogiso
Amir Elkabir	Koichiro Cory Kondo The Coordination Imperative: A Comprehensive Approach to Align Customer Demand and Inventory Management for Superior Customer Experience in Retail (with A. Vicente)	Priscilla Ong
Kristen Sarah Ellefson		Oghenekevwe Serena Ovbije
		Dimitrios Papalexopoulos

Francisco José Pérez-Ojeda Rodríguez	Ye Tian	James Joseph Akin
Luke R. Petersen	Emre Tok	Akinbamidele Olamide Akintola
Chieu L. Pham	Kenta Uchida	Joshua Bradley Albrechtsen
Kishan Jitendra Popat	Oghenetega Timothy Uvieghara	Dheera Ananthakrishnan
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Amiya Ranjan	Vicky Xiaoqing Wang	Faraj Atassi
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Charles Michael Salmon	Chau-Shyang Yang	Stuti Bhargava
Gabriel San Román Pacheco	Shinichiro Yasui	Scott Alan Bishop
Dilnoza Satarova	Tan Yi Ling	David Arthur Blum
Zeeshan Haider Shaikh	Krishna Lynne Zagura	Alexia Bowers Borden
Lara Monteiro da Silva	<b><u>Master of Science in Management</u></b> Course XV-A (Sloan Fellows) <i>Sloan School of Management</i>	
Inder Preet Singh	Viqar A. Pervaaz Authenticity in the Workplace, Is it Possible?	Radzi Buckman
Suhel Yasin Soudagar		Benjamin Emile Leduc Butterworth
Solen Soya	<b><u>Master of Business Administration</u></b> Course XV-E (Executive) <i>Sloan School of Management</i>	Yuri Cataldo
Shiny Sulaiman		Holly Marie Cirignano
Li Sun	Hatem Abouelenein	Duygu Oktem Clark
Zhenhua Sun		John Patrick Tan Co
Kazuaki Takeda	Arun Kumar Adat	Silvia Constatin
Ayako Tanaka		Eric Alden Cooper
Yuichi Tanaka	Mudassar Ahmed	Christina Crowley
Shantur Suresh Tapar		Joshua David Di Frances
Lindsay Gail Temes	Rehan Ahmed	Michelle Rose Diab
	Yoon Sang Ahn	

Jonathan Dickerson	Karthik Kirubakaran	Ryan John O'Kane
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Kimon Georgios Doukoumetzidis Hadjadj	Luqman Oloruntoyin Lawal	Lina Parra Cartagena
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Ahmed Elsherbiny	Robin Williams Lindsay	Zain Patrawala
Yusuf Erkul	Gang Vincent Liu	Jay Pereira
Steven Michael Estvold	Song Liu	Katherine Joanne Perkinson
Konstantinos Apostolos Fetfatsidis	Thiago Kiill Lofiego	Shankar Kasinadhuni Prasad
Steven Matthew Flanders	Daniella Lynn Logan	Wen Qiu
Elizabeth York Flanigan	Ryan Christopher Lorraine	Justin K. Quinn
Yung Fung	Gerald William Mackaman	Chandra Sekharm Ragyari
Edward Leonard Ganzinotti III	Cam Arthur Macomber	Rajmohan Rajagopalan
Koushik Gattu	Satoshi Maeda	Sanjay Rajagopalan
Michael Walter Gebhardt	Sandra Desrene Maher	Jeevan Babu Ramesh Gejjalagere
Philip J. Gerity	Neil Everett Martin	Atul Narsinh Rathod
Brian Edward Grottka	Pablo Martinez Gonzalez	Rune B.N. Rechenbach Taking System Dynamics from Research to Business
Tanya Hingorani	Kristina Masson	Philip Rigueur
Robert E. Jackson III	Marvi Ann Matos Rodriguez	Cedomila Ristic-Lehmann
Kirra Lynnette Jarratt	Mark Christopher McDonald	Norihiko Sakura
Oluwaseun Johnson Akeju	Dorota McKay	Viladeth Tim Sanouvong
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Bharti Khurana	Belinda Nilsson-Rodrigues	Alejandro Somuano
Yasmine Srouji King	Peter Alexander Noseworthy	Aditi Soni

Alexander Carlyn Soria	Raghad AlAttas	Nayeli Guadalupe Arellano Martinez (See also S.M., Course I) Visual Sort Marker Digitization in Sort Center Operations
Arun Srinivasan	Melissa N. Alleyne	
Edwin R. Suarez	Fernanda Almanza Gutierrez	
Shuchi Kapoor Sud	Njood Fahad Almehbash	
Xiaoxun Sun	Iago Almeida Neves	
Michael Barrett Swartz	Bader Fahad Almubarak	
Venkata Lakshminarayana Tirupati	Mona Mohammed Alnoaimi	
Meredith Giglia van der Velden	Salman Alshaykh	Daniel Mengistu Ayane (See also S.M., Course VI) Inference of the Novel Coronavirus 2019 in Patients Fitted with Boston Scientific Medical Hardware
Renata Vieira Machado P Medeiros	Fahad Abdulaziz F. AlThenayyan	
Kylie Jo Wagner	Ana Teresa Alvarez Hernandez	Diana Esmat Shohdy Ayoub
Anne F. Wang	Matheus Alves Fonseca	Zeynep Ece Aytug
Derek William Warner	Sumayah Abdullah Alzamil	Khadija Ba
Michael William Wiater	Roshni Amin	Neelesh Bagga
Julia Miller Wilson	Caroline Church Andersson	Adam Harrison Barber (See also S.M., Course II) Modeling Passenger Electric Vehicle Charging Demand with Machine Learning Using Telematics Data and Temperature
Mohammad Mustafa Zakarni	Santiago Andrade Aparicio (See also S.M., Course XXII) Technical and Commercial Feasibility Assessment of Nuclear Microreactors as a Clean Energy Source for Data Centers and Mining Sites	John Thomas Clarke Barstow (See also S.M., Course XVI) Application of Systems-Theoretic Process Analysis to Work Movement in Production Systems
Xin Qi Zhang	Kathryn Elizabeth Angevine (See also S.M., Operations Research) Multi-Modal Transit Time Prediction for E-Commerce Fulfillment Optimization and Carbon Emissions Reduction	Kate Elana Bartick
Steven Lloyd Zweibel	Casilda Angulo Obieta	Abdulaziz Ben Baz
<b><u>Master of Business Administration</u></b> Course XV <i>Sloan School of Management</i>	Aditya Kumar Anguria	Jan Berczely Prada
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Tommy Aditya	Ogechukwu Venessa Anyene	Swati Anand Bhat
Nikita Agarwal	Bibi Fatima Arabzada	Ragini Bhattacharya
Sabrine Ahmed Iqbal	Osvaldo Sebastián Araya Varas	Andres G. Bisono Leon
Zoya Sadruddin Ajani		Eduardo Bohrer (February, 2023)
Nicole Adole Stanfield Akwei		
Fawaz Bin Sultan Al Saud		

Atikhun Boonchian	German Andrés Castaño Mancera	Fayner Costa
Phiphat Boonperm (February, 2023)	Caterina Leuzzi Castellano	Bryn E. Coughlan
Glenn Michael Borok	Maria del Coro Celigueta Azurmendi	Evan Bradley Crane
Juan Pablo Borrero Cordova	Sarah Melissa Centanni	Bruce Robert Crawford
Mercer Renée Borris (See also S.M., Course VI) AI in the Cath Lab: Implications of Clinical AI-Enabled Assistance for Intravascular Ultrasound Procedures	Iheb Sadok Chalouat	Brooke Montgomery Crowe
Peris Nyaboe Bosire	Saejal Chatter	Yuke Cui
Stephanie Irion Boulger	Natalie Alyssa Chehrazi (See also S.M., Course II) Driving the Future of Long-Haul Trucking: Realizing the Potential of Battery Electric Vehicles through an Analysis of Financial and Environmental Impacts	Wei Dai
Eliza Susanne Bragg	Jane Chen	Carlo Dal Pizzol
Renan Bragion Bicudo	Joyce Jy Chen	Pannatorn Daochai
Nahom Haile Brhane	Tzu-Chiao Chen	Rachel Erica Davidson
Emily R. Bridges	Yu Chen	Connor Charles Davock
O'Shae Malik Bridges	Qinyi Chew	Tyler Clinton de Gorter
Samuel Nathan Broner	Luka Chomich	Joao Paulo de Moraes Tranquez
Francisco Jose Bruna Lagos	Victor Hing Shing Choy	Amelia Rose De Paola
Nicolás Buero Viana	Chia-Han Chung	Oskar Thedor de Smet
Gregory Steven Campo	Jinryang Chung	Siddharth Ketan Dedhia
Diego Carballo Hevia	Alice Cima	Marie Gabrielle Dee
Christopher Taylor Carr (February, 2023) (See also S.M., Real Estate Development)	Matthew Jonathan Cohen	Maya Cristina Delaney
Courtney Tighe Carrabino	Elias Cohen Mizrahi	Akshay Rangasai Devalla
Robert Alexander Carraway	Hannah Gail Constantakis	Laura Ann Diggans
Gregory Alan Cass (See also S.M., Course I) Driving Growth Through Sales and Operations Planning, Inventory Management, and Supply Chain Expansion	Hunter Joseph Conti	Tonguc Barkin Doganay
	Madeleine Margaret Cooney	Rafael Donatti Alves Maia
	Gabriel Hashimoto Cordaro	James Michael Donegan (See also S.M., Course II) Sustainability Analytics – Meeting Carbon Commitments Most Efficiently
	Isabel Cordón Escobar	Yiyi Dong
		Francisco Dubournais Donoso

Michael Ryan Duch	Belén Gallego Vara	Ethan Logan Greene (See also S.M., Course II) Development of a Student Operated Production Facility Using Discrete Event Simulation and Continuous Improvement
Rebecca A. Durr	Viktoria Galperina	
Anna Kathleen Eckhoff	Evan Gao	
Kathleen Theresa Egan	José Gaytán de Ayala Roca de Togores	James Sylvester Guerin
Alain El Khoury	Olajumoke Yetunde Gbeleyi	Amitabh Guha Roy
Angeles Elias	Elorm Mortia Gbordzoe	Toni-Rose Maico Guiriba (See also S.M., Course II) Improving Supply Chain Resiliency through Aseptic Connector Alignment and Standardization
Nicholas Francis Esposito (See also S.M., Course II) Make vs. Buy Optimization for Industrial Distribution and Manufacturing Company	Margaret Calliope Georgiadis (See also S.M., Engineering and Management)	
Clara Estol	Boyana Svetoslavova Georgieva	Jianduo Guo (February, 2023)
Mimi Peng Fan	Benjamin R. Gertner	Pulkit Gupta
Steve T. Fan	Mainak Ghosh	Sahil Gupta
Ross Mulder Feehan	John Michael Gibbons	Jose Guzman Ossandon
Catherine Tilghman Fernan	Aseem Goel	Jonas Richard Hauser
Albert B. Fernandez	Stephanie Janet Gomez Menzies	Robert Massey Hayes
Roderic Iñaki Figueroa	Zhen Zhen Gong	Ruizhe He
Ayesha Forbes	Amber Michelle Gonzales-Vargas	Ziv Heimlich Shtacher
Sarah Graff Fox	Agustin Gonzalez de Abiega	Lauren Marie Heintz (See also S.M., Course VI) Scenario Analysis of Profitability through Simulation of Different Business Contract Models
Santiago Frias Silva	Kyle Lindon Gordon	
Ayaka Fujisaki	Daniela Gorza	Marcos Helbling
Avery Gilbert Fullerton (See also S.M., Course II) Ship-Pack Optimization to Minimize Fulfillment Costs from Manufacturing to Customer	Fiona Grace Gouthro (See also S.M., Course II) Innovation Process at Omnichannel DCs Undergoing Shifts in Channel Mix	Cindy Alejandra Heredia
Francisco Javier Galindez de Jesus (See also S.M., Course II) Integrated Energy Modelling Tool for Electric and Gas Infrastructure Decision Support	Rishabh Goyal	Karen Joy T. Hernandez
Gonzalo Galindo Barragan	Austin Elliott Gray	Zoe L. Hinton (See also S.M., Course II) Enhanced Digital Capability through the Use of Simulation in Footwear Product Creation
	Alexander Robert Green	Yuki Hirai (February, 2023)
		Diana Dac Ho

<b>James Patrick Hogan</b>	<b>Lina Ayman Jawadi</b>	<b>Lindsey Anne Kennington</b> (See also S.M., Course XXII) A Techno-Economic Analysis of Hydrogen, Electric, and Diesel Fuel in Medium - and Heavy-Duty Transportation Applications
<b>Michael Joseph Hogan</b>	<b>Justin Leon Jiang</b> (See also S.M., Course II) Digital Supply Chain Connectivity and Capacity Analysis for Strategic Production Planning in Biosurgery	
<b>Peter Gerald Holt</b>	<b>Minwoo Hong</b> Oxidized Regenerated Cellulose	
<b>Minwoo Hong</b>		<b>Dongyoung Kim</b>
<b>Jacob Tyler Hopkins</b> (See also S.M., Course II) Performing Actionable Evaluations of Sustainability Investments	<b>Wenfei Jiao</b>	<b>Hyun Jin Kim</b>
<b>Ori Hoxha</b> (See also S.M., Course II) External Network Manufacturing Capacity Design and Procurement in the Pharmaceutical Industry	<b>Yuri Jimbo</b>	<b>Jisu Kim</b>
<b>Andrew Jonathan Hu</b>	<b>Elena Jin Li</b>	<b>Emil K. Kiroff</b>
<b>Carmen Satia Hundley</b>	<b>Rutvik Viren Joglekar</b>	<b>Scarlett E. Koller</b> (See also S.M., Course XVI) Applying Satellite Broadband Connectivity with Edge Computing to New Industry Verticals
<b>Scott Samuel Hungerford</b> (See also S.M., Course I) Improving Throughput in an Aluminum Rolling Mill Using Modeling and Optimization Techniques	<b>Paul Mitchell Johnson</b> (See also S.M., Course XVI) Parametric Study of Environmental Testing in Satellite Manufacturing	<b>Dennis J. Konczyk</b>
<b>Ángel Ibañez</b>	<b>Gina Pathikulangara Joseph</b>	<b>Jomi Saxl Kramer</b> (See also S.M., Course II) Outside Inside, Inside Around: Leveraging External Innovation Through Strategic Investment
<b>Mariam Elisabeth Ibrahim</b> (See also S.M., Course II) Developing a Data-Driven Strategy for In-Process Quality Assurance for Additive Manufacturing	<b>Ellis José Juan, Jr.</b>	<b>Samuel Parker Kruse</b>
<b>Kunio Iwata</b>	<b>Alexander Leo Casati Judge</b> (See also S.M., Course X) Enhancing Workflows in Biologics Drug Substance Process Development Through Automation	<b>Erika Kurachi</b>
<b>Peter Emanuel Jacobson</b> (See also S.M., Course I) Optimization of Private Equity Investments for Industrial Carbon Emission Reduction	<b>Adam M. Jurko</b>	<b>Miles David Kurtz</b> (See also S.M., Course I) Planogram Optimization in Support of Inventory Management
<b>Naila Noor Jahan</b>	<b>Nidhi N. Juthani</b> (See also Ph.D., Course X)	<b>Kwan Yi Lam</b>
<b>Haidar Jamal Baba</b>	<b>Chanitra Kaewprasertsri</b>	<b>Christina Lauren Langmack</b>
<b>Francis James</b>	<b>Sarah Emily Kalish</b> (See also M.C.P., Course XI)	<b>Monica Laura Larrazabal</b>
<b>Nicole Jamgotchian</b>	<b>Aneesh Kanakamedala</b>	<b>Clarice Leaman Dominguez</b>
<b>Sebastião Maria Jardim de Sousa</b>	<b>Ayesha K. Kang</b>	<b>Renee Leatherman-Aelion</b>
<b>Brayden E. Jaw</b>	<b>Pran Karnchanapimolkul</b>	<b>Lindsay Lebel</b>
	<b>Nattapat Kasemsarn</b>	<b>Jia Min Charmaine Lee</b>
	<b>Rachit Kejariwal</b>	<b>Rachel Mei Ling Lee</b>
	<b>Benjamin Elliott Kekeisen</b>	<b>Samuel Parker Lehman</b>
	<b>Brian Francis Kelly</b>	

Aaron Jeffrey Lewin	Pooja Malhotra	Timothy Michael Miller
Priscilla Wainer Licht	Bayazid Malikov	Somesh Mohapatra (February, 2023) AI-Assisted Reaction Impurity Prediction and Inverse Structure Elucidation
Caroline Marguerite Liegey	Samuel Jack Mansberg	
Hsuan Lin	Joshua Marcovici	Alexandra Frances Moir
Madeline Linde	Cristóbal Marín Siebel	Lucio Alexander Mondavi
Darryl Andrew Lindie	Dragana Marinkovic	Javier Gregorio Montero Echeverria
Boyuan Liu	Eduardo Maristany (See also S.M., Course XVI) Economic Analysis of 3D-Printed Ceramic Cores for Gas Turbine Investment Castings	Eduardo Moraes Schuch
Frank Fang Liu	Phillip C. Marmolejo	Guillermo Moraleda Conejo
Kyna Liu	Clemens Antoine Laurent Martin	Claudia M. Moreno Gonzalez
Lisa Liu (See also S.M., Course II) Model-Based Technology Roadmapping of Fuel Cells in Sustainable Aviation Applications	Shashidhar Masireddy	Justin Daniel Mueller
Mali Lou	Yutaro Matsui	Michaela Elizabeth Murr (See also S.M., Course VI) Predictive Models from Real-time Sensors in Process Analytical Technology Initiative in Biomanufacturing
Gianpaolo Luciano Rivera (See also S.M., Operations Research) Data-Driven Clustering for New Garment Forecasting	Lucia Matzumura Umemoto	Madison Christine Myers (See also S.M., Course II) On-Site Hydrogen Production via Distributed Methane Pyrolysis
Michael Joseph Luis	Megan Ann McCarthy	Maria Corina Negron Pardo
Ingrid Gerda Lund	George Bailey McConnell	Asia Beatrice Nelson
Kyle J. Lux (See also S.M., Course II) Identifying Bottlenecks through Process Consistency in High-Capacity Automated Manufacturing	Michael Ryan McGetrick	Samuel Jared Newman
Taylor Pano Lyberger (See also S.M., Course I) Towards Zero Defect Manufacturing in Multi-Stage Production Systems	Christopher Robert McGuire	Richard P. Newton
Lisa Ann Lyons	James Craige McNay	Mauricio Neyra
Emmanuel Rufino Maceda	Manuel Mendez	Clyde-Blaise Niba
Sandhya Mahadevan	Shehara Marini Danushka Mendis	Michael Patrick Nieset
Tarek Hussam Makawi	Lorenzo Alejandro Mendoza Pulido	Noshin Anjum Nova
Sarah Shamim Malek	Andrew James Mighty (See also S.M., Course VI) Autonomous Drone Assisted Aircraft Inspections	Cristiano Novack Amaral Pereira
	Gabriel Mijares Margáin	Akiyo Nozaki
	Kayla Louise Miller	Matthew Stewart O'Neill

Victor Ogbonnia Obiahu	Jillian Louise Puskas	Caroline Juliet Connors Sambuco
Sean Jungmin Oh	Anisha Siddiqi Quadir	Vivek C. Sandhu
Neha Onteelu	Andres Quesada Nicoli	Darron Robert Sandifer (See also S.M., Course II)
Karen Eberechukwu Onwuegbule	Yashvardhan Shobhit Rajan	Continuous Improvement Framework for a Multi-Model Production Line
Joseph Paul Samuel Orsbom	Maria Teresa Ramos Tormo	Omer Sheik Sanjay
José Luis Ortiz Rosero	Toni Ramsay	Khalyani Sankar
Wayne Donbi Pak	Jose Manuel Rebollo Velasco	Paula Santamaria-Missetzis
Jennifer Lindsey Pandolf (See also S.M., Course XVI) Investigation of Model-Based Systems Engineering Integration Challenges and Improvements	Gabriela E. Redhead	Caio Marques dos Santos
Santiago Pardo Sanchez	Almog Reshef	Avika Saraf
Vicente Parodi	Yong-Min Sol Rhee	Julie Marie Sarasua (See also S.M., Course I) Network Optimization of a D2C Supply Chain Subject to Changing Cost Conditions and Consumer Preferences
Juan Pascual Orero	Shira Helen Rieke	Julia Sarra Rizkallah
Gabriel Joseph Pascualy (See also S.M., Course VI) Enabling Actionable Maintenance Analytics with Ontology-Driven Natural Language Processing	Nahel Rifai Burneo	Hugh Michael Satterthwaite
Kyle Arjun Patel	Carlos Rios Riviello	Paige Ann Schank
Vivek Pejaver	Maria Paula Rivarola Monzon	Joshua Henry Scharf
Stewart Peña Feliz	Alp Rona Rodopman	Lisa Grace Schleuter (See also S.M., Course I) Site Material Supply Chain Optimization
Jonathan Perel	Alexander Rodosky	Matthew Joseph Schmidt
Aaron Perez	Flavio Rodrigues Alves Neto	Tanner Rae Schwiesow
Natalie Annie Petrossian	Aldo Fernando Rodriguez Garcia	Lucy Eastman Scott
Andrew Augustus Piscione	Elena Micky Rodriguez-Villa	Chandler Semjen
Pitchakorn Pokrud	Genevieve Emily Rogers	Lynette Hui Xin Seow
Shanan Kumar Powell	Samuel Paul Rose	Marco Antonio Sepúlveda Lasen
Varun Prasad	Hannah Jordan Rubin	Gauri Seth
Divesh Suresh Punjabi Archbold	Esther Susana Rufat Meix	Naveen Vishnu Sharma
	Anna Russell	Alula Teshome Shiferaw
	Heather Elizabeth Sabel	
	Christen Frith Safko	

Kana Shinozaki	Kevin Michael Tenny (See also Ph.D., Course X)	Gaurav Verma
Matthew Neil Shisler	Jason Anthony Teno (See also S.M., Course I) Optimizing Apparel Pack Sizes Across Retailer's North America Network	Megan Amelia Vigliarolo
Isaac F. L. Silberberg	Kaya Thomas Wilson (See also S.M., Course I) Automated Guided Vehicles for Material Flow in Fulfillment Centers	Adrian Villarreal Chavez
Guillermo Jose Siman, Jr.	Peter Song Tian	Alura Danan Vincent (See also S.M., Course I) Scenario Planning Framework & Sensitivity Analysis for New Orthopedic Sets in the Spine Platform
Matthew William Simpson	Zachary Wentworth Tieke	Shiv Anil Wadhwani
Mihiraan Malhotra Singh	Jacob Andrew Tomasovic (See also S.M., Course II) Manufacturing Integration: Managing Throughput and Organizational Change	Taylor Richandra Jandel Walker
Allison Rhett Smedberg (See also S.M., Course II) From Bench to Bucks: An Approach and Case Study in Scaling Additive R&D Technologies within the Aerospace Industry	Stephen C. Townsend	Jingyi Wang
Alexandra Elizabeth Smith	Wellington Trindade Vitorino, Sr.	Jonathan Hung-Yu Wang
Sharul Sonthalia	Tiffany Tsai	Rachel Wang
Nicha Sophonpanich	John Oscar Turner	Molly Raim Wartenberg
Ardeshir Hormazd Sorabjee	Benjamas Tusakul	Rachel Elizabeth Weintraub
Tiya Sosothikul	Onyinyechi Chiemela Ukaire (See also S.M., Course VI) Predicting and Preventing Unsafe Events at an Enterprise	Seth Michael Weintraub
Siddarth Sreeram	Shaundra Julianne Ullman	Joshua Ian Weisberg (See also S.M., Course I) Enhancing Manufacturing Performance to Plan with Predictive Analytics
Hunter Lauren Stahl	Shelby Madison Unger (See also S.M., Course VI) Analysis of Respiratory Time Series Data for Breathing Comfort Detection Prior to Sleep Onset During APAP Therapy	Dean Richard Wetty
Alexandra June Steckmest	Andrea Urbieta Ugarte	Samuel Thomas Weyen
Patrick Shaw Stewart	Cory Douglas Vandivier	Jennifer Corley Whaley
Thomas Ryan Stuart (See also S.M., Course XVI) Defining Core Manufacturing Capabilities at Raytheon Missiles & Defense	Maria del Mar Velasco	Alfre Wimberley
Haryuni Sumawijaya	Silvia Ines Velasquez Casado (February, 2023)	Olivia Lee Wold
Julianne Kathryn Swartzenberg	Diya Rao Verghese	Patrick Nelson Wolff
John Bartholomew Sweeney V		Chi Ho Wong
Max Alan Tanski (See also S.M., Course VI) Making More Miles: Automating Load Selection, Truck Dispatch, and Backhaul Activation in Outbound Logistics Operations		Ismael Juan Xique
		Zixi Xu
		Ivan Jia Lun Yang

Mert Can Yavuz	Alessandro Fedel (September, 2022)	Benedict Shee Toh Lee (September, 2022)
Chongbo You	Bohao Feng (September, 2022)	Riley David Lenaway (September, 2022)
Shaopeng Zhang	Jingyuan Gan (September, 2022)	Xiao Geng DeMars DeRover Li (September, 2022)
Juntong Zhu	Grace Anne Ruggiero Garbrecht (September, 2022)	Sean Lo (September, 2022)
<b>Master of Business Analytics</b> Course XV-N <i>Sloan School of Management</i>	Semi Hasaj (September, 2022)	Kyle Aaron Mana (September, 2022)
Kim Rachel Adler (September, 2022)	Bennett Madson Hellman (September, 2022)	Maria Camila Marenco Tamara (September, 2022)
Christopher Sebastian Aeberli (September, 2022)	James Walter Hennessy (September, 2022)	Kyle Berry Maulden (September, 2022)
Gabriel Isaac Afriat (September, 2022)	Erik Viktor Henriksson (September, 2022)	Manik Kumar Mukherjee (September, 2022)
Omar Abdelaziz Ayed (September, 2022)	Amy Kee Young Ho (September, 2022)	Aritro Nandi (September, 2022)
Jordan Nicole Baruch (September, 2022)	Anton Ipsen (September, 2022)	Jessica Nunez (September, 2022)
Alexander Kenneth Birch (September, 2022)	Arpit Jain (September, 2022)	Ultan Brian O'Rourke (September, 2022)
Harry Moses Channing (September, 2022)	Jesus Alfonso Juarez Palazuelos (September, 2022)	Chloe Sarah Pariente (September, 2022)
Qiqi Chen (September, 2022)	Ryme Kabak (September, 2022)	Lorenzo Pugliese (September, 2022)
Luis Costa Laveron (September, 2022)	Rahul Kasar (September, 2022)	Brandon Michael Ransom (September, 2022)
Tiana Cui (September, 2022)	Shaleenraj Kaur (September, 2022)	Vincent Angelo Rogers (September, 2022)
Sara Tarek Darwish Elsayed Darwish (September, 2022)	Naomi Keis (September, 2022)	Gibson David Russell (September, 2022)
Devashis Bose Das (September, 2022)	Charlotte Kennedy (September, 2022)	Claire-Alix Valerie Saillard (September, 2022)
Caroline Grace Daugherty (September, 2022)	Ananya Jayalakshmi Krishnan (September, 2022)	Jesús Rafael Sánchez Sánchez (September, 2022)
Daniel Elechiguerra Batlle (September, 2022)	Vincent C. Lao (September, 2022)	Mathieu Jonathan Paul Sibué (September, 2022)

**Ishaan Jordan Singham**  
(September, 2022)

**Mariana Margarita Suarez**  
(September, 2022)

**Felicie Marie Marion Margot Tard**  
(September, 2022)

**Ian Jacob Paul Tong**  
(September, 2022)

**Ryan Ian Trusler**  
(September, 2022)

**Yi Wang**  
(September, 2022)

**Yuepeng Wang**  
(September, 2022)

**Zjin Wang**  
(September, 2022)

**Yijun Wei**  
(September, 2022)

**Dayna V. Wilmot**  
(September, 2022)

**Siqi Wu**  
(September, 2022)

**Rocky Ziang Xie**  
(September, 2022)

**Yiwen Zhang**  
(September, 2022)

**Jiesi Zhou**

(September, 2022)

**Master of Science in**  
**Management**

Course XV  
*Sloan School of Management*

**David D. Covell**

(See also S.M., Course VI)

Preventing WIPLash: Implementation of a Controlled Release Strategy to Improve Shop Performance

**Master of Finance**  
Course XV-F  
*Sloan School of Management*

**Tobias Matthias Adam**  
(February, 2023)

**Nicolas Agrotis**  
(February, 2023)

**Abdulla Salem Alkaabi**  
(February, 2023)

**Hussam Ibrahim Abdulrahman Alo-qayli**  
(February, 2023)

**Asem Ghasan Alsadeq**  
(February, 2023)

**Constantinos Anastasiou**  
(February, 2023)

**Mohammad Mustafa Arif**  
(February, 2023)

**Sandro Joseph Antoine Azzam**  
(February, 2023)

**Kunal Bansal**  
(February, 2023)

**Elisa Tabea Marie Becker-Foß**  
(February, 2023)

**Arsenii Bekbulatov**

**Meryem Bennani**

**Diane Bonnault**

**Pietro Bosani**  
(February, 2023)

**Arthur Maxime Claude Breabout**  
(February, 2023)

**Aliyah Oluwadarafunmi Busari**  
(February, 2023)

**Xiaoyu Cao**  
(February, 2023)

**Yuchen Cao**  
(February, 2023)

**Giulia Capannelli**

**Ramana Mayur Carthigesan**  
(February, 2023)

**Goffredo Casadei**  
(February, 2023)

**Saad Chris Cheiban**

**Shihan Chen**  
(February, 2023)

**Simin Chen**  
(February, 2023)

**Tianyi Chen**  
(February, 2023)

**Xi Chen**  
(February, 2023)

**Yang Chen**  
(February, 2023)  
Predicting the Price of Crude Oil and Its Derivatives: A News-Oriented Hybrid Deep Learning Approach

**Junming Cui**  
(February, 2023)

**Thomas Cui**  
(February, 2023)

**Jared Austen Day**  
(February, 2023)

**Lilian Denis Albert Delamare**

**Jin Ding**  
(February, 2023)

**Mai-Linh Tuyet Danielle Duong**

**Maximilian Darius Farkhad**  
(February, 2023)

**Andrea Fusco**  
(February, 2023)

**Héctor Ernesto García Pérez**

**Ribhav Gaur**

Zhenting Ge (February, 2023)	Maxime Lamy	Mariel Padilla Lujano (February, 2023)
Leonard Glimm (February, 2023)	Pavel Leshchev (February, 2023)	Vivek Palisetty (February, 2023)
Estela Gómez Tagle Tapia	Boyang Li (February, 2023)	Yuan Pei (February, 2023)
Carl-Herman Bjelke Grant (February, 2023)	Chenglin Li (February, 2023)	Jing Peng (February, 2023)
Avaneep Gupta (February, 2023)	Jingyi Li (February, 2023)	Feipeng Qi (February, 2023)
Tivas Edward Gupta	Mengyi Li (February, 2023)	Jingya Qi (February, 2023)
Fabio Hartmann	Qichen Li (February, 2023)	Samson Qian (February, 2023)
William Høiness (February, 2023)	Ruochen Li (February, 2023)	Multi-Agent Deep Reinforcement Learning and GAN-Based Market Simulation for Derivatives Pricing and Dynamic Hedging
Erxiao Hu (February, 2023)	Yifan Li (February, 2023)	Xinyue Qian (February, 2023)
Yunchang Hu	Yuxuan Li	Kaizhong Qiu (February, 2023)
Chuyue Huang (February, 2023)	Manan Nimeesh Lilani (February, 2023)	Wynston Avery Reed
Hamza Riaz Hussain (February, 2023)	Huben Liu (February, 2023) Dislocation	Filip Ryzner (February, 2023)
Simeon Stanislavov Ivanov	Pei Liu (February, 2023)	Ahmed Magdy Sharafeldin (February, 2023)
Manas Jain (February, 2023)	Zheyuan Liu	Iain Martin Sheerin (February, 2023)
Philipp-Anton Jessen (February, 2023)	Mouad M'Ghari	Jiatong Shi (February, 2023)
Liehan Jiang (February, 2023)	Muzhi Ma (February, 2023)	Yunqi Shi (February, 2023)
Abhishri Kabra (February, 2023)	Nathan Mellinger	Yue Shu (February, 2023)
Hedi Kalai (February, 2023)	Hugues Armano Isidore Menguy	Hanxiao Si
Maria Christina Kalogera (February, 2023) Multi-Dimensional Derivatives Hedging	Henry Tao Ning (February, 2023)	Xinpei Sun (February, 2023)
Alexander James Kitsberg (February, 2023)	Johan August Ottosen (February, 2023)	

<b>Hizkia Adrian Susanto</b> (February, 2023)	<b>Runqin Yan</b> (February, 2023)	<b>Master of Science in Management Studies</b> Course XV-S <i>Sloan School of Management</i>
<b>Colin Thomas Suvak</b> The Impact of Fiscal and Monetary Policy on the Cross-Sectional Value Factor	<b>Xiyu Yan</b> (February, 2023)	<b>Rodrigo Ignacio Berner Bensan</b> Matching Individual Environmental, Social and Governance Revealed Preferences with Investment Portfolios
<b>Emil John Syréen</b> (February, 2023)	<b>Ningxin Yang</b> (February, 2023)	<b>Jinlan Chen</b> The Drivers of ESG Index Outperformance: A Transatlantic Analysis of US and European Markets
<b>Zimo Tang</b> (February, 2023)	<b>Ruizhou Yang</b> (February, 2023)	<b>Yanzhang Chen</b> Designing an Investment Research System for Asset Management Based on Natural Language Processing
<b>Jimmy Teng</b> (February, 2023)	<b>Jie Yin</b> (February, 2023)	<b>Yu Tai Chen</b> Gamification in Marketing to Increase Customer Retention
<b>Lizbeth Joana Tirado Torres</b> (February, 2023)	<b>Omer Yurtsever</b> (February, 2023)	<b>Ki Chun Ian Chiang</b> Investment Landscape of Generative AI and Its Market & Governmental Impact on Society
<b>Di Wang</b> (February, 2023)	<b>Danyang Zhang</b>	<b>Eduardo Garza de Zamacona</b> Why do Platforms Fail
<b>Yijin Wang</b> (February, 2023)	<b>Haiyi Zhang</b> (February, 2023)	<b>Ningxin Huang</b> Emerging Markets Penetration Strategy in the Deglobalization Era - A Case Study of the NEV Industry in Southeast Asia
<b>Yufeng Wang</b> (February, 2023)	<b>Haohao Zhang</b> (February, 2023)	<b>Hongxuan Jia</b> Impact of Restricted Stock Grant (RSG) Issuance on Financial Performance of US Software and IT Companies
<b>Yutong Wang</b> (February, 2023)	<b>Rongrong Zhang</b> (February, 2023)	<b>Ryan Idris Kamaruddin</b> ChatGPT and the Future of Management Consulting: Opportunities and Challenges Ahead
<b>Ziyan Wang</b> (February, 2023)	<b>Ruoyu Zhang</b>	<b>Jocelyn Ann Keyser</b> Reinventing the (Spinning) Wheel: A Systems Map to Scale Bacterial Grown Materials
<b>Ziyi Wang</b> (February, 2023)	<b>Tianyi Zhang</b> (February, 2023)	<b>Yvette Man-yi Kong</b> Strategizing the Value Proposition of Higher Education for Generation Alpha: The Business Case of Community
<b>Chiharu C. Watanabe</b> (February, 2023)	<b>Zeyi Zhang</b> (February, 2023)	
<b>Salomon Zacharias Wiedemer</b>	<b>Zhehao Zhang</b> (February, 2023)	
<b>Carsten Willer</b> (February, 2023)	<b>Changming Zhao</b> (February, 2023)	
<b>Sam Wolotsky</b> (February, 2023)	<b>Jiulei Zhu</b> (February, 2023)	
<b>Puyue Wu</b> (February, 2023)	<b>Yifei Zou</b> (February, 2023)	
<b>Yu Xie</b> (February, 2023)		
<b>Haishan Xu</b> (February, 2023)		

**Alice Salomee Morgensztern**  
Design of a Robust Qualitative Method  
for the Assessment of the MIT REAP  
Impact on Formerly Engaged Innovation  
Ecosystems

**Felix Claus Julius Naerger**  
Evaluation of Residential Real Estate  
Energy-Rating Systems in Germany, and  
their Applicability to the United States

**Krittamate Pramniya**  
Overview of Non-Fungible Tokens: Key  
Features, Opportunities, Challenges, and  
Business Use Cases

**Mathilde Camille Julie Robinet**  
Unveiling the ESG Landscape: Exploring  
Revealed Preferences through Archetypal  
Analysis of Decision-Makers in  
Environmental, Social, and Governance  
Causes

**Xiaoyu Shi**  
A Study of the Individual Pension Funds  
Allocation Strategy in China

**Loan Tricot**  
Effects of Redistributive Tax Policies on  
Fuel Demand

**Tristan Pierre Gaëtan Watel-Dehaynin**  
Moving Towards a More Sustainable  
Model of Energy Production &  
Consumption: A Case for Indonesia

**Tianyi Zhang**  
Application of A System Dynamic Model  
on U.S. Regional Real Estate Industry

**Xianmin Zhu**  
Analysis of the Prospects and  
Development of China's Online  
Healthcare Industry: Opportunities and  
Challenges

**Master of Science in  
Management of Technology**  
Course XV-A  
*Sloan School of Management*

**Anderson da Silva Pereira**  
Inclusive FinTech – How Financial  
Technologies Can Tackle Global Problems

**Ângelo José Bergamaschi Vicente**  
The Coordination Imperative: A  
Comprehensive Approach to Align  
Customer Demand and Inventory  
Management for Superior Customer  
Experience in Retail (with K. Kondo)

**Master of Science in  
Management Research**  
Course XV  
*Sloan School of Management*

**Xi Chen**  
(September, 2022)  
Bridging Time Preferences and Social  
Preferences

**Luca Gius**  
(February, 2023)  
Great Ideas (Don't) Sell Themselves: The  
Disclosure Paradox in Digital Startups  
Auctions

**Graelyn Blatner Humiston**  
(February, 2023)  
Revealing the Illusion of Explanatory  
Depth May Hinder Persuasion

**Audrey Mang**  
Do Women Ask? Gender Differences in  
Applying for Internal Job Openings

**Claire C. McKenna**  
(September, 2022)  
Workplace Change in an Age of  
Insecurity: Evidence from a U.S.  
Automaker

**Andrew Minster**  
(February, 2023)  
Compounding Ambiguity: When  
Workers Leave Meaningful Work

**Hirotaka Miura**  
(February, 2023)  
Mutual Information as a Predictor of  
Group Performance: Application to  
Soccer Teams

**Zanele Tanyaradzwa Munyikwa**  
(February, 2023)  
The Last Mile of Broadband: Examining  
the Economic Impacts of the Connect  
America Fund

**Christina Angie Nguyen**  
(September, 2022)  
Do Externally-Hired Managers Increase  
Innovation? Evidence from the U.S.  
Government

**Hong Yi Tu Ye**  
How Many Americans Work Remotely?  
A Survey of Surveys and Their  
Measurement Issues

**Yevhenii Usenko**  
Inflation, Taxation, and Corporate  
Investment in the U.S. During the Great  
Inflation

**John Ross Wilson**  
The Propensity to Borrow out of  
Expected Permanent Income

**Master of Science in Operations  
Research**

*Sloan School of Management in  
conjunction with the Schwarzman  
College of Computing*

**Kathryn Elizabeth Angevine**

(See also M.B.A., Course XV)

Multi-Modal Transit Time Prediction for  
E-Commerce Fulfillment Optimization  
and Carbon Emissions Reduction

**Riade Benbaki**

Topics in Sparsity and Compression:  
From High Dimensional Statistics to  
Overparametrized Neural Networks

**Gauthier Marc Benoit Guinet**

(September, 2022)

Bandit Problems Under Censored  
Feedback

**Gianpaolo Luciano Rivera**

(See also M.B.A., Course XV)

Data-Driven Clustering for New Garment  
Forecasting

**Martin Rame**

Branch-and-Price for Prescriptive  
Contagion Analytics

**Rebecca Penny Reubenstein**

Equitable Community Health Worker  
Deployment in Sub-Saharan Africa: A  
Modeling Framework for Stochastic  
Health Progression

**Benjamin Marlowe Siegel**

Innovative Supply Chain Cyber Risk  
Analytics: Unsupervised Clustering and  
Reinforcement Learning Approaches

## SCHOOL OF SCIENCE

### Master of Science in Chemistry

Course V

*Department of Chemistry*

**Gisselle Pombar**

(September, 2022)

Studies on Organophosphorus Catalyzed C(sp<sup>3</sup>)-H Amination for the Synthesis of Benzimidazoles

### Master of Science in Biology

Course VII

*Department of Biology*

**David Gorestki**

(September, 2022)

Engineering Apomixis in Plants to Stabilize Intergenerational Hybrid Vigor

### Master of Science in Brain and Cognitive Sciences

Course IX

*Department of Brain and Cognitive Sciences*

**Margaret Grace McCue**

Mechanisms Underlying Learning Mediated Plasticity in the Adult Mammalian Olfactory Bulb

### Master of Engineering in Computation and Cognition

Course VI-9

*Department of Brain and Cognitive Sciences*

**Tyler H. Allen**

Leveraging BERT Extractive Summarization to Predict the Future of Law

**Alexandra Berg**

Single-Nucleus Multi-Region Transcriptional Characterization of Four-Repeat Taupathic Neurodegenerative Disorders

**Curtis C. Chen**

(See also S.B., Course VI-9)

A Purely Granularity-Based Account of Positive-Form Gradable Adjectives

**Benjamin Dwyer**

Enabling Secure Vehicle to Infrastructure Communications via Two-Factor Authentication

**Anne Hanako Kimura Harrington**

Exploring the Properties of Human Vision in Computer Vision

**Caleb M. Harris**

(September, 2022)

Medship: Affective Computing for Building Empathetic Behaviors Toward Patients with Substance Use Disorders

**Doron Hazan**

DECIDE-ML: A Data-Driven Exploration and Clustering Informed Decision-Making Framework for Sustainable City Metabolism and Climate Mitigation

**Annika L. Heuser**

(September, 2022)

Transformer-Maze

**Michelle S. Hung**

Modeling Social Actions as Communication about Relationships

**Linette Kunin**

(See also S.B., Course VI-9)

Conceptual and Perceptual Novelty as Distinct Motives of Infant Looking

**Vinh Phúc Lê**

Neuron Image Segmentation via Colorization

**Noah H. Lee**

(February, 2023)

A Ubiquitous Spectrolaminar Motif of Local Field Potential Power across Cortex

**Mariela M. Perez-Cabarcas**

Multimodal Physiological Signal Sensing for Continual Learning in an Implantable Device to Predict and Respond to the Onset of Hypoglycemia

### Master of Science in Climate Physics and Chemistry

Course XII

*Department of Earth, Atmospheric, and Planetary Sciences*

**Christine M. Padalino**

The Effect of Eddies on fCO<sub>2</sub> in the North Pacific Surface Ocean

### Master of Science in Earth and Planetary Sciences

Course XII

*Department of Earth, Atmospheric, and Planetary Sciences*

**Jing Jian**

(September, 2022)

Probing Mantle Transition Zone beneath Central Pacific Using PP-Precursors

## **AWARDED JOINTLY WITH THE WOODS HOLE OCEANOGRAPHIC INSTITUTION**

### **Master of Science in Mechanical Engineering**

**Gregory A. Burgess**  
Course II  
(September, 2022)  
*In-situ Characterization of Sea State with Improved Navigation on an Autonomous Underwater Glider*

**Nicholas Craig Evans**  
Course II  
(September, 2022)  
A Practical Search with Voronoi Distributed Autonomous Marine Swarms

**Kathryn Melissa Fung**  
Course II  
(September, 2022)  
Oceanic Ambient Noise in the Arctic on the Chukchi Shelf: Broadband Characteristics and Environmental Drivers

**Nicholas Edward Swanda**  
Course II  
(September, 2022)  
High Frequency Acoustic Propagation and Modeling in Stratified Estuaries

**Peter Thomas Ventola**  
Course II  
(September, 2022)  
Developing the Next Generation of Autonomous Underwater Gliders

### **Master of Science in Electrical Engineering and Computer Science**

**Daniel Xin Yang**  
Course VI  
Rank2Reward: Learning Robot Reward Functions from Passive Video

### **Master of Science in Chemical Oceanography**

**Solomon T. Chen**  
Course XII  
(February, 2023)  
Quantifying Pelagic Primary Production via Automated In-Situ Incubation Systems (PhRePhOx)

**Luciana Villarroel**  
Course XII  
(September, 2022)  
The Fate of Anthropogenic Nitrogen in a Redox Stratified Pond: An Isotopic Approach

### **Master of Science in Marine Geology and Geophysics**

**Faith Joan Duffy**  
Course XII  
(September, 2022)  
An Inverse Modeling Approach to Investigate Deep Ocean Ventilation from Radiocarbon Records

### **Master of Science in Aeronautics and Astronautics**

**Amy Ngo Phung**  
Course XVI  
Enabling Robotic Manipulation in Remote Environments with Shared Autonomy

## SCHOOL OF ARCHITECTURE AND PLANNING, DOCTORAL

### **Doctor of Philosophy**

School of Architecture and Planning

#### **Rounaq Basu**

(September, 2022)

Thesis in the field of Urban Science and Planning submitted to the Department of Urban Studies and Planning: Planning Sustainable Cities: Coordinating Accessibility Improvements with Housing Policies

#### **Guillermo Roman Bernal Cubias**

Thesis in the field of Media Arts and Sciences: Into the Wild: Deploying Brain and Physiological Sensing in Natural Environments to Enhance Wake and Sleep Cognitive Behavioral Studies

#### **Christianna Susan Bonin**

(February, 2023)

Thesis in the field of Architecture: History and Theory of Art submitted to the Department of Architecture: Decentering Russia: Art and Empire, 1900-1973

#### **Daniel Matthew Calacci**

Thesis in the field of Media Arts and Sciences: Centering Communities in Research and Technology Design

#### **Juliana Mae Cherston**

(September, 2022)

Thesis in the field of Media Arts and Sciences: The Well-Dressed Spacecraft: Textiles for Cosmic Dust Metrology

#### **Jungwoo Chun**

(February, 2023)

Thesis in the field of Environmental Policy and Planning submitted to the Department of Urban Studies and Planning: New Roles for Intermediaries: The Case of Community Owned Solar Energy Development

#### **Pedro Antonio Colon-Hernandez**

Thesis in the field of Media Arts and Sciences: A Conversational Agent for Dynamic Procedural Interactions

#### **Alexandra Courcoulas**

(February, 2023)

Thesis in the field of Architecture: History and Theory of Art submitted to the Department of Architecture: The Benaki Museum in Interwar Greece: Constructing Greek Art & the Greek Nation After the Fall of the Ottoman Empire

#### **Silvia Danielak**

(February, 2023)

Thesis in the field of Urban and Regional Planning submitted to the Department of Urban Studies and Planning: The Infrastructure of Peace: Socio-Spatial Planning in UN Peace Operations

#### **Dinuki Nushelle de Silva**

(September, 2022)

Thesis in the field of Architecture: History and Theory of Architecture submitted to the Department of Architecture: Moving Experiences: Traveling Museum Exhibitions and the Infrastructures of Cultural Globalization

#### **Duygu Demir**

(September, 2022)

Thesis in the field of Architecture: History and Theory of Art submitted to the Department of Architecture: A Syncretic Modernism: Articulations of Painting in Turkey (1910s-1940s)

#### **Asmaa Elgamal**

Thesis in International Development and Planning submitted to the Department of Urban Studies and Planning: Landing Security: Risk, Endogeneity, and the Archives of Colonialized Planning in Morocco

#### **Daniel L. Engelberg**

Thesis in the field of Urban and Regional Planning submitted to the Department of Urban Studies and Planning: Embracing the Uncertain Future: Three Papers of Uncertainty in Analysis, Planning, and Policy-Making

#### **Ziv Green Epstein**

Thesis in the field of Media Arts and Sciences: The Dynamics of Attention in Digital Ecosystems

#### **Matthew Robert Groh**

Thesis in the field of Media Arts and Sciences: The Science and Art of Human and Artificial Intelligence Collaboration

#### **Iheb Guermazi**

(September, 2022)

Thesis in the field of Architecture: History and Theory of Architecture submitted to the Department of Architecture: The Spiritual Turn: Modern Sufism and the Study of Islamic Art

#### **Adam Jeddiah Haar Horowitz**

(September, 2022)

Thesis in the field of Media Arts and Sciences: Interfacing with Dreams: Novel Technologies and Protocols for Targeted Dream Incubation

#### **Alexandros Haridis**

(September, 2022)

Thesis in the field of Architecture: Design and Computation submitted to the Department of Architecture: Visual Calculating Aesthetic Value: Formal Models of Description and Evaluation for Aesthetic Systems

#### **Yijiang Huang**

(September, 2022)

Thesis in the field of Architecture: Building Technology submitted to the Department of Architecture: Algorithmic Planning for Robotic Assembly of Building Structures

#### **Mohamed Abdelbagi Ismail**

(February, 2023)

Thesis in the field of Architecture: Building Technology submitted to the Department of Architecture: Reshaping Concrete: Empowering Development through Low-Carbon Structural Design

#### **Caroline Adair Jaffe**

(September, 2022)

Thesis in the field of Media Arts and Sciences: An Environmental and Economic Systems Analysis of Land Use Decisions in the Massachusetts Cranberry Industry

**Sooyeon Jeong**  
(September, 2022)  
Thesis in the field of Media Arts and Sciences: Designing and Deploying Robotic Companions to Improve Human Psychological Wellbeing

**Eliyahu Keller**  
(September, 2022)  
Thesis in the field of Architecture: History and Theory of Architecture submitted to the Department of Architecture: Drawing Apocalypse: Architectural Representation in the Nuclear Age and the Imagination of the End

**Nicolas Alexander Lee**  
Thesis in the field of Media Arts and Sciences: Endless Ecosystems - Designing a World without Waste

**Nicole L'Huillier Chaparro**  
(September, 2022)  
Thesis in the field of Media Arts and Sciences: Membranas

**Babak Manouchehrifar**  
(September, 2022)  
Thesis in the field of Urban and Regional Studies submitted to the Department of Urban Studies and Planning: Urban Planning and Religious Practice: Three Challenges

**Caroline Elizabeth Murphy**  
(February, 2023)  
Thesis in the field of Architecture: History and Theory of Architecture submitted to the Department of Architecture: Waters and Welfare: Rivers, Infrastructure, and the Territorial Imagination in Grand Ducal Tuscany, ca. 1549–1609

**Deborah Anne Najjar**  
(September, 2022)  
Thesis in the field of Media Arts and Sciences: CRISPR Biosensors for Resource-Limited Nucleic Acid Detection

**Anastasia Katharine Ostrowski**  
Thesis in the field of Media Arts and Sciences: How do we Design Robots Equitably?: Engaging Design Justice, Design Fictions, and Co-Design in Human-Robot Interaction Design and Policymaking Processes

**Soyoung Park**  
(September, 2022)  
Thesis in the field of Urban and Regional Planning submitted to the Department of Urban Studies and Planning: Transclave Economy: Immigrant Business Survival in an Era of Pandemic

**Wenzhe Peng**  
Thesis in the field of Architecture: Design and Computation submitted to the Department of Architecture: Visual Experience in Temporal Situational Context: Method of Matching and Modeling in Design

**Diego Ignacio Pinochet Puentes**  
Thesis in the field of Architecture: Design and Computation submitted to the Department of Architecture: Computational Gestural Making: A Framework for Exploring the Creative Potential of Gestures, Materials, and Computational Tools

**Jack Burnett Reid**  
Thesis in the field of Media Arts and Sciences: Using Earth Observation-Informed Modeling to Inform Sustainable Development Decision-Making

**Arianna Salazar Miranda**  
Thesis in the field of Computational Urban Science and Planning submitted to the Department of Urban Studies and Planning: Building Sustainable and Inclusive Cities: Analyzing the Impact of Planning Paradigms in the US

**Chandra Shekhar**  
(September, 2022)  
Thesis in the field of Public Policy and Environmental Philosophy submitted to the Department of Urban Studies and Planning: State, Street, and Public Goods: A Theory of Misgovernance

**Tay Won Shin**  
Thesis in the field of Media Arts and Sciences: Ultrastructural Membrane Expansion Microscopy

**Samuel Lee Spaulding**  
(September, 2022)  
Thesis in the field of Media Arts and Sciences: Lifelong Personalization for Social Robot Learning Companions: Interactive Student Modeling Across Tasks and Over Time

**Tristan Breaden Swedish**  
(September, 2022)  
Thesis in the field of Media Arts and Sciences: Computational Discovery of Hidden Cues in Photographs

**Darien Alexander Williams**  
Thesis in the field of Urban and Regional Planning submitted to the Department of Urban Studies and Planning: Locating a Black Planning Tradition and Spatializing Black Nationalism

## SCHWARZMAN COLLEGE OF COMPUTING, DOCTORAL

### **Doctor of Philosophy**

Schwarzman College of Computing

#### **Chin-Chia Hsu**

(September, 2022)

Thesis in the field of Social and Engineering Systems and Statistics submitted to the Institute for Data, Systems, and Society: Misinformation, Persuasion, and News Media on Social Networks

#### **Yan Jin**

(February, 2023)

Thesis in the field of Social and Engineering Systems submitted to the Institute for Data, Systems, and Society: Voting, Social Networks, and Polarization: Models for Information Aggregation in Social Settings

#### **Yi Sun**

(February, 2023)

Thesis in the field of Social and Engineering Systems submitted to the Institute for Data, Systems, and Society: Algorithmic Fairness in Sequential Decision Making

#### **Max Aidas Vilgalys**

(September, 2022)

Thesis in the field of Social and Engineering Systems submitted to the Institute for Data, Systems, and Society: Essays on Measuring Climate Change Damages and Adaptation

#### **Mengying Wu**

(February, 2023)

Thesis in the field of Social and Engineering Systems submitted to the Institute for Data, Systems, and Society: Local Official and Polluter Accountability in China's Environmental Inspections

#### **Yunzong Xu**

Thesis in the field of Social and Engineering Systems and Statistics submitted to the Institute for Data, Systems, and Society: Data-Driven Dynamic Decision Making: Algorithms, Structures, and Complexity Analysis

# SCHOOL OF ENGINEERING, DOCTORAL

## **Doctor of Science**

School of Engineering

### **Michael George Fifield**

Thesis in the field of Aeronautics and Astronautics: Adaptive and Responsive Design Under Uncertainty for Resource-Constrained Small Satellites

### **Jiyun Kang**

(September, 2022)

Thesis in the field of Materials Science and Engineering: Microscopic Strain Localization and Damage in Multi-Phase Alloys

### **Konstantinos Keremidis**

(February, 2023)

Thesis in the field of Structures and Materials submitted to the Department of Civil and Environmental Engineering: Kinetic Temperature of Structures for Resilience, Instability and Failure Analysis of Building Systems

### **So Yeon Kim**

Thesis in the field of Materials Science and Engineering: Design and Development of Damage-Tolerant Active Materials

### **Runze Liu**

Thesis in the field of Materials Science and Engineering: Design of 3D Complex Nanostructures Using Block Copolymer Self-Assembly

### **Haoxue Yan**

(September, 2022)

Thesis in the field of Materials Science and Engineering: Beyond Embrittlement: In-Situ Explorations of Hydrogen Effects Near the Boundaries

## **Doctor of Philosophy**

School of Engineering

### **Raj Abhijit Dandekar**

(September, 2022)

Thesis in the field of Computational Science and Engineering submitted to the Department of Civil and Environmental Engineering: A New Way to Do Epidemic Modeling

### **Thomas Joseph Abitante**

Thesis in the field of Bioastronautics submitted to the Harvard-MIT Program in Health Sciences and Technology: Evaluation of Neuromuscular Electrical Stimulation as a Bone Loss Countermeasure on a Long Duration Mars Mission

### **Sayed Mazdak Abulnaga**

Thesis in the field of Electrical Engineering and Computer Science: Volumetric Mapping for Medical Imaging and Geometry Processing

### **Bernardo Aceituno Cabezas**

Thesis in the field of Mechanical Engineering: An Optimization Approach to Certified Manipulation

### **Julius Adebola Adebayo**

(September, 2022)

Thesis in the field of Electrical Engineering and Computer Science: Tools for Debugging Machine Learning Models

### **Aviv Adler**

(February, 2023)

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: The Traveling Salesman Problem for Systems with Dynamic Constraints

### **Monica Agrawal**

(February, 2023)

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Towards Scalable Structured Data from Clinical Text

### **Rashed Abdulazeez Al-Rashed**

(September, 2022)

Thesis in the field of Mechanical Engineering: An Assessment of Community-Scale Electrodialysis Desalination Systems and Improved Scale Mitigation through Pulsed Operation

### **Juliette Suzanne Jaqueline Alain**

(September, 2022)

Thesis in the field of Materials Science and Engineering: From Elastic Electrodes to Fabric Systems

### **Ferran Alet i Puig**

(September, 2022)

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Extending the Spectrum of Learning to Learn

### **Maryam Ali A Alghannam**

(February, 2023)

Thesis in the field of Computational Science and Engineering submitted to the Department of Civil and Environmental Engineering: Mathematical and Computational Modeling of Injection-Induced Seismicity

### **Mohammad Ayman Alkhadra**

(September, 2022)

(See also S.M., Course X-A)  
Thesis in the field of Chemical Engineering: Selective Ion Separations Using Shock Electrodialysis

### **Omar Suliman H Alolayan**

Thesis in the field of Civil and Environmental Engineering: Machine Learning Based Algorithms for Improving Forecasting in Subsurface Energy Resources

### **Emily Morgan Alsentzer**

(September, 2022)

Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Few Shot Learning for Rare Disease Diagnosis

### **Jason Max Altschuler**

(September, 2022)

Thesis in the field of Electrical Engineering and Computer Science: Transport and Beyond: Efficient Optimization over Probability Distributions

### **Yamin Ishraq Arefeen**

Thesis in the field of Electrical Engineering and Computer Science: Combining Computational Techniques with Physics for Applications in Accelerated MRI

<b>Toros Arikán</b> Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Localization and Structure Learning in Reverberant Environments	<b>Amanda M. Beck</b> (February, 2023) Thesis in the field of Electrical Engineering and Computer Science: State Space Methods Using Biologically-Relevant Generative Models to Analyze Neural Signals	<b>Jonathan Birjiniuk</b> (February, 2023) Thesis in the field of Electrical Engineering and Computer Science: Modeled and Unmodeled Approaches for Quantification of the Cardiac Autonomic Nervous System
<b>Alexandre Armengol Urpi</b> Thesis in the field of Mechanical Engineering: Capturing Tacit Knowledge of Experts through the Study of Visual Attention: Applications for Human Expertise and AI	<b>Haley Katherine Beech</b> Thesis in the field of Chemical Engineering: Synthesis, Characterization, and Theory of Polymer Gels to Elucidate Topology-Property Relationships	<b>Bodhisatwa Biswas</b> (September, 2022) Thesis in the field of Applied Plasma Physics submitted to the Department of Nuclear Science and Engineering: Impact of Wave-Filament Scattering in the Scrape-Off Layer during Lower Hybrid Current Drive
<b>Naveen T. Arunachalam</b> Thesis in the field of Chemical Engineering: Autonomous First-Principles Design of Transition Metal Complexes	<b>Zied Ben Chaouch</b> (September, 2022) Thesis in the field of Electrical Engineering and Computer Science: Risk and Uncertainty in Healthcare Finance, Investment Management, and Asset Pricing	<b>Colin Edward Bittner</b> (September, 2022) Thesis in the field of Chemical Engineering: Self-Assembling Peptide Nanofibers RADA16 and IEIK13 for Rapid Hemostasis
<b>Adam Alexander Atanas</b> Thesis in the field of Computational and Systems Biology: Brain-Wide Representations of Behavior Spanning Multiple Timescales and States in <i>C. elegans</i>	<b>Joseph Don Berleant</b> Thesis in the field of Biological Engineering: DNA-Based Non-Orthogonal Interaction Networks: Theory, Design, and Application to DNA Computing and Memory	<b>Jessica Danielle Boles</b> (September, 2022) Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Power Electronics Meet Piezoelectrics: Converters, Components, and Miniaturization
<b>Kyriakos Axiotis</b> (September, 2022) Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Flows, Submodularity, Sparsity, and Beyond: Continuous Optimization Insights for Discrete Problems	<b>Marc Dylan Berliner</b> (February, 2023) Thesis in the field of Chemical Engineering: Simulating, Controlling, and Understanding Lithium-Ion Battery Models	<b>Thomas Emile Bourgeat</b> (February, 2023) Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Hardware Specification and Verification in Rule-Based Hardware Designs Languages
<b>Saumil Bandyopadhyay</b> Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Accelerating Artificial Intelligence with Programmable Silicon Photonics	<b>Eric Alexander Bersin</b> (September, 2022) Thesis in the field of Electrical Engineering and Computer Science: Techniques for Deployed Quantum Networks with Solid-State Defect Centers	<b>Roberto Brenes</b> (September, 2022) Thesis in the field of Electrical Engineering and Computer Science: Microscale Energy Transport in Lead Halide Perovskites
<b>Carlos Barajas</b> (September, 2022) Thesis in the field of Mechanical Engineering: Modeling and Controlling Resource Loading in Bacterial Genetic Circuits	<b>Matthew Ryan Billingsley</b> (February, 2023) Thesis in the field of Chemical Engineering: Mathematical Tools for Discontinuous Dynamical Systems	<b>Michael Cian Brennan</b> Thesis in the field of Computational Science and Engineering: Gradient-Based Dimension Reduction for Bayesian Inverse Problems and Simulation-Based Inference
<b>Maria Bauza Villalonga</b> (September, 2022) Thesis in the field of Mechanical Engineering: Visuo-Tactile Perception for Dexterous Robotic Manipulation	<b>Molly Anne Bird</b> (September, 2022) Thesis in the field of Biological Engineering: Investigating the Role of RNA-Binding Proteins in Tumor Response to DNA Damage-Inducing Chemotherapy	<b>Arthur Brown</b> Thesis in the field of Aeronautics and Astronautics: Towards Practical Fixed-Wing Aircraft with Electroaerodynamic Propulsion

<b>Noam Buckman</b> (February, 2023) Thesis in the field of Mechanical Engineering: Semi-Cooperative Planning in Mixed Human-Autonomous Environments	<b>Thérèse Carter</b> (September, 2022) Thesis in the field of Civil and Environmental Engineering: Investigating the Representation of Smoke and Its Implications for Air Quality and Climate	<b>Irene Yunshien Chen</b> (September, 2022) Thesis in the field of Electrical Engineering and Computer Science: Machine Learning Approaches Towards Equitable Healthcare
<b>Dylan Maxwell Cable</b> Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Computational and Statistical Methods for Analysis of Spatial Transcriptomics Data	<b>Grissel Cervantes Jaramillo</b> (February, 2023) Thesis in the field of Health Sciences and Technology submitted to the Harvard-MIT Program in Health Sciences and Technology: Suppression of the Ubiquitin Ligase Function of FBXW7 Accelerates Metastatic Progression of Pancreatic Ductal Adenocarcinoma	<b>Jingkai Chen</b> (September, 2022) Thesis in the field of Autonomous Systems submitted to the Department of Aeronautics and Astronautics: Hybrid Concurrent Planning with Heterogeneous Robot Teams for Timed Goals
<b>Alejandro D. Cabrales Hernandez</b> Thesis in the field of Space Systems submitted to the Department of Aeronautics and Astronautics: Orbit and Attitude Control for (non-) Rotating Space-Based Telescopes Utilizing Reflectivity Control Devices	<b>Maytee Chantharayukhonthorn</b> Thesis in the field of Mechanical Engineering: A Hybrid Discrete and Continuum Framework for Multiscale Modeling	<b>Liang-Hsun Chen</b> (September, 2022) Thesis in the field of Chemical Engineering: Nanoemulsion-Loaded Hydrogels for Advanced Pharmaceutical Formulations
<b>Francis Cangialosi</b> Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Privacy-Preserving Video Analytics	<b>Brynmor Kentaro Chapman</b> (September, 2022) Thesis in the field of Electrical Engineering and Computer Science: A Dual Perspective on Computational Complexity	<b>Lijie Chen</b> (September, 2022) Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: New Connections Between Hardness and Pseudorandomness
<b>Taylor Marie Cannon</b> Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Volumetric Optical Imaging of Tissue Microstructure for Grading of Dysplasia <i>in vivo</i>	<b>Alexis-Tzianni Charalampopoulos</b> Thesis in the field of Mechanical Engineering and Statistics submitted to the Department of Mechanical Engineering: Coarse-Grained Models for Prediction, Uncertainty Quantification, and Extreme Event Statistics of Turbulent Flows in Engineering and Geophysical Settings Using Physics-Consistent Data-Driven Closures	<b>Melinda Chen</b> (February, 2023) Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: QUILT (Quantitative Ultrasound in Longitudinal Tissue Tracking): Stitching 2D Images into 3D Volumes for Organ Health Monitoring
<b>Yunteng Cao</b> (September, 2022) Thesis in the field of Structures and Materials submitted to the Department of Civil and Environmental Engineering: Precision Delivery of Multi-Scale Payloads to Tissue-Specific Targets in Plants	<b>Aaron Solomon Charous</b> Thesis in the field of Mechanical Engineering and Computational Science submitted to the Department of Mechanical Engineering: Dynamical Reduced-Order Models for High-Dimensional Systems	<b>Pin-Yi Chen</b> (February, 2023) Thesis in the field of Analytics for Supply Chain submitted to the Department of Mechanical Engineering: Order Fulfillment Algorithms for Online Retail
<b>Rebecca Joy Carlson</b> Thesis in the field of Health Sciences and Technology submitted to the Harvard-MIT Program in Health Sciences and Technology: Functional Genomic and Image-Based Screening Approaches for Probing Host-Pathogen Interactions	<b>Keith Ming Hong Cheah</b> (See also S.M., Course X-A) Thesis in the field of Chemical Engineering: Protein-Based Degrader Strategies Against Oncogenic RAS	<b>Ruicong Chen</b> Thesis in the field of Electrical Engineering and Computer Science: Analog-to-Digital Converters for Secure and Emerging AIoT Applications
<b>Brandon Michael Carter</b> Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Interpretations of Machine Learning and Their Application to Therapeutic Design		<b>Yuankang Chen</b> Thesis in the field of Air-Breathing Propulsion submitted to the Department of Aeronautics and Astronautics: Technology Demonstration of a Megawatt-Class Integrated Motor Drive for Aircraft Propulsion

<b>Zhantao Chen</b> (September, 2022) Thesis in the field of Mechanical Engineering: Machine Learning for Phonon Thermal Transport	<b>Ondrej Ćierny</b> Thesis in the field of Aeronautics and Astronautics: Sensorless Wavefront Correction Algorithms for Free-Space Optical Communications	<b>Elad Deiss-Yehiely</b> (February, 2023) Thesis in the field of Polymers and Soft Matter submitted to the Department of Materials Science and Engineering: Controlling the Bio-Nano Interface via Engineered Layer-by-Layer Nanoparticles for Treatment of Biofilm-Based Infections
<b>Lillian Tiffany Chin</b> Thesis in the field of Electrical Engineering and Computer Science: Function Follows Form: An Exploration of Robotic Embodiment through Geometry	<b>Marco Colangelo</b> Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Superconducting Nanowire Technology for Microwave and Photonics Applications	<b>Jose Pedro de Souza</b> (September, 2022) Thesis in the field of Chemical Engineering: Microscopic Physics of Electrical Double Layers
<b>Stephen Chou</b> (September, 2022) Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Format Abstractions for the Compilation of Sparse Tensor Algebra	<b>Michael Joseph Coulombe</b> Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Algorithms and Hardness in Single and Multiplayer Games and Other Limited Computational Models	<b>Jialin Ding</b> (September, 2022) Thesis in the field of Electrical Engineering and Computer Science: Instance-Optimized Database Indexes and Storage Layouts
<b>Chun Man Chow</b> (February, 2023) Thesis in the field of Chemical Engineering: Nanoporous Graphene Membranes for Health and Environmental Applications	<b>Andrew Thomas Cummings</b> Thesis in the field of Aeronautics and Astronautics: Development of a Special Purpose End-to-End Satellite Constellation Design Methodology	<b>Huifeng Du</b> (September, 2022) Thesis in the field of Mechanical Engineering: Dynamic Studies of Instability-Triggered Intersonic Surface Detachment Waves in Soft Material Sliding
<b>Matthew Ruiyan Chua</b> (September, 2022) Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Charge Carrier Balance in Lead Halide Perovskite Light Emitting Diodes	<b>Yuval Dagan</b> (February, 2023) Thesis in the field of Electrical Engineering and Computer Science: Statistical Estimation from Dependent and Adversarial Data	<b>Max Atticus O'Rourke English</b> (September, 2022) Thesis in the field of Biological Engineering: Synthetic Biology Tools for Sensing and Evolving Microbes: CRISPR-Diagnostics and Transposon-Mediated Genome Re-Wiring
<b>Chanwoo Chung</b> (February, 2023) Thesis in the field of Electrical Engineering and Computer Science: Implementing Accelerated Key-Value Store: From SSDs to Datacenter Servers	<b>Wangzhi Dai</b> (September, 2022) Thesis in the field of Electrical Engineering and Computer Science: Tackling Key Challenges to Guide Clinical Decisions in Cardiovascular Diseases	<b>Andres Erbsen</b> (February, 2023) Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Foundational Integration Verification of Diverse Software and Hardware Components
<b>Minju Chung</b> Thesis in the field of Chemical Engineering: Electrochemical Alkene Epoxidation Using Water as the Oxygen Source	<b>Thomas Defferiere</b> (September, 2022) Thesis in the field of Materials Science and Engineering: Defects and Ionic Transport at Reduced Temperatures – Electric Field and Optical Control on Nanoscopic Spatial Scales	<b>Emre Ergeçen</b> Thesis in the field of Electrical Engineering and Computer Science: Ultrafast Probing of Nonlinear Dynamics in Quantum Materials: Beyond Linear Response Probes
<b>Yunsie Chung</b> (February, 2023) Thesis in the field of Chemical Engineering: Developing Predictive Tools for Solvent Effects on Thermodynamics and Kinetics	<b>Ellen M. DeGennaro</b> (February, 2023) Thesis in the field of Health Sciences and Technology submitted to the Harvard-MIT Program in Health Sciences and Technology: Clonal Architecture and Genetic Regulation of the Developing Mammalian Cerebral Cortex	

**Amanda Lynn Facklam**

(September, 2022)

Thesis in the field of Biological Engineering: Uncovering Biological Mechanisms of Immunomodulatory Biomaterials for Encapsulated Cell Therapies

**Alexis Maguin Fenton, Jr.**

(September, 2022)

Thesis in the field of Chemical Engineering: Voltammetric Methods Augmented with Physical Models and Statistical Inference

**John Killian Feser**

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Inductive and Deductive Program Synthesis for Database Applications

**Samuel Frank**

(February, 2023)

Thesis in the field of Applied Plasma Physics submitted to the Department of Nuclear Science and Engineering: An Investigation of Full-Wave Effects on Lower-Hybrid Wave Propagation, Absorption, and Current Drive

**Jonathan Elliott Frankle**

(February, 2023)

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: The Lottery Ticket Hypothesis: On Sparse, Trainable Neural Networks

**Cory Vincent Frontin**

(February, 2023)

Thesis in the field of Aerospace Computational Engineering submitted to the Department of Aeronautics and Astronautics: Error Behavior and Optimal Discretization of Chaotic Differential Equations

**Xinzhe Fu**

(February, 2023)

Thesis in the field of Communications and Networks submitted to the Department of Aeronautics and Astronautics: Learning-NUM: Utility Maximization in Stochastic Queueing Networks

**Axel Antonio Garcia Burgos**

Thesis in the field of Aeronautics and Astronautics: Integral Quadratic Constraints and Safety Certificates for Uncertainty Characterization and Control Safety-Aware Filtering of Proximity Operations Between Satellites

**Indie Camille Garwood**

Thesis in the field of Health Sciences and Technology submitted to the Harvard-MIT Program in Health Sciences and Technology: Probing the Depths of Unconsciousness with Multifunctional Neurotechnology

**Efrat Goffer**

(February, 2023)

Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Optimization of Hemodynamics from Mechanical Support Devices in Cardiogenic Shock

**Maxwell Philip Gold**

(September, 2022)

Thesis in the field of Computational and Systems Biology: Machine Learning Applications for Neurological Diseases

**Nicolás Gómez Vega**

Thesis in the field of Aeronautics and Astronautics: Advances in Electroaerodynamic Thrusters for Aircraft Propulsion

**Sheng Gong**

(September, 2022)

Thesis in the field of Materials Science and Engineering: Improving Supervised Machine Learning for Materials Science

**Khloe Sandra Gordon Wei**

Thesis in the field of Biological Engineering: Pooled Screening of Chimeric Antigen Receptor Signaling for Improved Clinical Function

**Amy Greene**

(February, 2023)

Thesis in the field of Electrical Engineering and Computer Science: Calibration and Utilization of High-Fidelity Two-Qubit Operations

**Ofer Grossman**

Thesis in the field of Electrical Engineering and Computer Science: Pseudo-Determinism

**Yuzhou Gu**

Thesis in the field of Electrical Engineering and Computer Science: Channel Comparison Methods and Statistical Problems on Graphs

**Webster Jingtao Guan**

Thesis in the field of Chemical Engineering: Scalable Subcellular Resolution Mapping of the Human Brain

**Rui Guo**

(September, 2022)

Thesis in the field of Mechanical Engineering: Chemistry, Transport and Function of Ionic Phases in the Solid Electrolyte Interphase on Lithium Metal Anodes

**Abhinav Gupta**

(September, 2022)

Thesis in the field of Mechanical Engineering and Computation submitted to the Department of Mechanical Engineering: Scientific Machine Learning for Dynamical Systems: Theory and Applications to Fluid Flow and Ocean Ecosystem Modeling

**Samarth Gupta**

Thesis in the field of Civil Engineering and Computation submitted to the Department of Civil and Environmental Engineering: Large-Scale Optimization for Robust Multi-Class Prediction and Resource Allocation

**Katie Soyoung Hahm**

(February, 2023)

Thesis in the field of Mechanical Engineering: In-Home Gait Health Monitoring Using Machine Learning and Ambient Sensing

**Rabab Haider**

Thesis in the field of Mechanical Engineering: Physics-Aware Optimization and Data-Driven Methods for Low-Carbon Power Systems

**Brady Meikle Hammond**

Thesis in the field of Mechanical Engineering: Real-time Autonomy and Maneuvering Simulation of an Unmanned Underwater Vehicle near a Moving Submarine using Actively Sampled Gaussian Process Surrogate Models

<b>Weiqiao Han</b> (February, 2023) Thesis in the field of Electrical Engineering and Computer Science: Risk Aware Planning and Probabilistic Prediction for Autonomous Systems under Uncertain Environments	<b>Robert Gregory Hinshaw</b> (September, 2022) Thesis in the field of Bioastronautics submitted to the Harvard-MIT Program in Health Sciences and Technology: Biological Modeling of the Neural Response to Space Radiation and Its Interaction with Alzheimer's Disease Risk Genes	<b>Yimeng Huang</b> (February, 2023) Thesis in the field of Materials Science and Engineering: Polyanionizing Rocksalt Cathodes for Lithium-Ion Batteries
<b>Shivam Handa</b> (September, 2022) Thesis in the field of Computer Science and Engineering submitted to the Department of Electrical Engineering and Computer Science: Program Synthesis over Noisy Data	<b>Rebecca Marilyn Ho</b> Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Driving Emerging Technologies From Concept to Reality: A Case Study of Carbon Nanotubes	<b>Atalay Mert İleri</b> (February, 2023) Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Confidentiality Under Nondeterminism for Storage Systems
<b>Ashley Jessica Hartwell</b> Thesis in the field of Mechanical Engineering: Design Optimization of Two-Way Spanning Concrete Systems for Low-Carbon, Context-Informed Construction	<b>Katharina Viktoria Hoebel</b> Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Domain and User-Centered Machine Learning for Medical Image Analysis	<b>Katherine Ilia</b> (February, 2023) Thesis in the field of Biological Engineering: RNA-Level Controllers for Programmable Gene Expression in Mammalian Cells
<b>Christian Alexander Haughwout</b> (September, 2022) Thesis in the field of Space Systems submitted to the Department of Aeronautics and Astronautics: Small Satellite Closed Ecosystems as Enabling Platforms for Low-Cost In-Space Biological Research	<b>Patrick Victor Holec</b> (September, 2022) Thesis in the field of Biological Engineering: Scalable Methods for Immune Repertoire Sequencing	<b>Mohammad Shafaet Islam</b> (February, 2023) Thesis in the field of Aerospace Computational Engineering submitted to the Department of Aeronautics and Astronautics: Accelerating the Jacobi Iteration for Solving Linear Systems of Equations Using Theory, Machine Learning, and High Performance Computing
<b>R'mani Symon Haulcy</b> Thesis in the field of Electrical Engineering and Computer Science: AI-Based Speech Assessment of Cognitive Impairment Disorders	<b>Tzu Ming Hsu</b> (September, 2022) Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Effective Modeling in Medical Imaging with Constrained Data	<b>Siddharth Srinivasan Iyer</b> (September, 2022) Thesis in the field of Electrical Engineering and Computer Science: Accelerating the Acquisition and Reconstruction of Spatio-Temporal MRI
<b>He He</b> (September, 2022) Thesis in the field of Transportation submitted to the Department of Civil and Environmental Engineering: Firms in Integrated Urban Models: Agglomeration Economies and the Dynamics of Employment Size Decisions	<b>Yiqun Hu</b> (September, 2022) Thesis in the field of Computational Science and Engineering submitted to the Department of Civil and Environmental Engineering: Learning Mixed Multinomial Logit Models	<b>Alex T. Jaffe</b> (February, 2023) Thesis in the field of Electrical Engineering and Computer Science: V for Venous Pressure
<b>Catherine Campbell Henry</b> (February, 2023) Thesis in the field of Biological Engineering: Toward High-Throughput, Quantitative Platforms to Identify the Targets of Small Molecules	<b>Xin Huang</b> (September, 2022) Thesis in the field of Autonomous Systems submitted to the Department of Aeronautics and Astronautics: Diverse Behavior Prediction through Deep Hybrid Models	<b>Asmita Jana</b> (September, 2022) Thesis in the field of Materials Science and Engineering: Design of Surface and Bulk Interactions: A Computational Approach to Sustainable Energy
<b>James Russell Hermus</b> (February, 2023) Thesis in the field of Mechanical Engineering: A Dynamic Primitives Hypothesis: A Descriptive Model of Human Physical Interaction		<b>Siddhartha Visveswara Jayanti</b> (February, 2023) Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Simple, Fast, Scalable, and Reliable Multiprocessor Algorithms

**Zi-Xun Jia**  
Thesis in the field of Mechanical Engineering: Intragastric Mechanical Systems for Dysmotility Diagnosis and Obesity Treatment

**Brandon Michael Johnston**  
Thesis in the field of Chemical Engineering: Development of Dendritic Polymers as a Modular Drug Delivery Platform for Avascular Tissues

**Nidhi N. Juthani**  
(See also M.B.A., Course XV)  
Thesis in the field of Chemical Engineering Practice submitted to the Department of Chemical Engineering: Extracellular Vesicle Capture and microRNA Detection

**Soumya Kannan**  
Thesis in the field of Biological Engineering: Discovery and Characterization of Diverse Microbial RNA-Guided Systems

**Krishan Kant**  
(February, 2023)  
Thesis in the field of Electrical Engineering and Computer Science: Bearingless Motor with Magnet Free Rotor and 6DoF Position Sensor for Extracorporeal Life Support

**Neha Kapate**  
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Engineering Myeloid Cell Phenotype Using Cell Surface-Adhered Microparticles for Therapeutic Applications

**Amir Hassan Karamlou**  
Thesis in the field of Electrical Engineering and Computer Science: Quantum Simulation of Many-Body Systems with Superconducting Qubits

**Cody Jacob Karcher**  
(September, 2022)  
Thesis in the field of Aeronautics and Astronautics: An Optimization Centered Approach to Multifidelity Aircraft Design

**Colin Clancy Kelsall**  
(February, 2023)  
Thesis in the field of Mechanical Engineering: Design Challenges for Ultra-High-Temperature Energy Storage with Thermophotovoltaics

**Eesha Khare**  
Thesis in the field of Polymers and Soft Matter submitted to the Department of Materials Science and Engineering: Mechanochemical Understanding of Metal-Coordinated Polymers Using Simulation and Experiment

**Sameer Khurana**  
Thesis in the field of Electrical Engineering and Computer Science: Transfer Learning for Spoken Language Processing

**Bobak Toussi Kiani**  
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Horizons of Artificial Intelligence in Quantum Computation

**Colin Younghun Kim**  
Thesis in the field of Biological Engineering: Mechanisms of Enzyme Neofunctionalization in Plant Specialized Metabolism

**Dong Ki Kim**  
(February, 2023)  
Thesis in the field of Autonomous Systems submitted to the Department of Aeronautics and Astronautics: Effective Learning in Non-Stationary Multiagent Environments

**Hyungseok Kim**  
Thesis in the field of Mechanical Engineering and Statistics submitted to the Department of Mechanical Engineering: Bioinstrumentation and Statistical Methods for Investigating Host-Microbial Interactions

**Jaehwan Kim**  
(February, 2023)  
Thesis in the field of Electrical Engineering and Computer Science: Monolithic Integration of Fluidics, Electronics, and Photonics using CMOS Foundry Processes

**Minah Kim**  
(September, 2022)  
Thesis in the field of Electrical Engineering and Computer Science: Design and Analysis of High-Stability THz Molecular Clock System

**Samuel Kim**  
Thesis in the field of Electrical Engineering and Computer Science: Novel Approaches to Discovery and Optimization in Physics: Symbolic Regression, Bayesian Optimization, and Topological Photonics

**Miriam Anne Kreher**  
Thesis in the field of Computational Nuclear Science and Engineering: Modeling Feedback Effects of Transient Nuclear Systems Using Monte Carlo

**Arun Krishnadas**  
Thesis in the field of Mechanical Engineering and Computation submitted to the Department of Mechanical Engineering: Optimality of Human Acoustic Perception of Natural Sounds, and Violin Acoustics Elucidated with a Non-Corporeal Musical Instrument Made by Fully Air-Coupled Finite-Element-Modeling of the Titian Stradivarius

**Abinash Kumar**  
(September, 2022)  
Thesis in the field of Materials Science and Engineering: Structure-Property Correlations in Compositionally Complex Ferroelectrics

**Conner Samuel Kummerlowe**  
(September, 2022)  
Thesis in the field of Computational and Systems Biology: High Throughput Measurement and Perturbation of Tissues and Tissue-Derived Cellular Models

**Rebecca A. Kurfess**  
Thesis in the field of Mechanical Engineering: An Investigation of Polymer Support Structures In Metal Directed Energy Deposition

**Ukjin Kwon**  
(February, 2023)  
Thesis in the field of Electrical Engineering and Computer Science: Robust Ratiometric Sensor Design and a Long-Term Memory Genetic Toggle Switch Design Based on Mathematical Analysis

**John Robert Lake**  
(February, 2023)  
Thesis in the field of Mechanical Engineering: Physicochemical Interactions at Interfaces: Mass and Charge Transfer at Chemically Reacting Interfaces

**Brianna Marie Lax**  
Thesis in the field of Chemical Engineering: Mechanistic Elucidation and Therapeutic Improvement of Anti-CTLA-4 Therapies

**Elise Ledieu-Dherbécourt**  
(September, 2022)  
Thesis in the field of Environmental Biology submitted to the Department of Civil and Environmental Engineering: Lost In Starvation: How the Interplay between Physiology and Ecology Impacts Bacterial Persistence in a Patchy Landscape

**Sungkwon Lee**  
(February, 2023)  
Thesis in the field of Mechanical Engineering: A Unified Overlapping Finite Element Formulation

**Victor Julio Leon**  
(February, 2023)  
Thesis in the field of Mechanical Engineering: Active Interfaces: From Biointerfaces to Mineralization

**Bethany Rose Lettiere**  
(February, 2023)  
Thesis in the field of Mechanical Engineering: Tailoring Mechanical Properties and Porosity in Laser Powder Bed Fusion by Spatial Manipulation of Feedstock Composition

**Changhao Li**  
(February, 2023)  
Thesis in the field of Quantum Science and Engineering submitted to the Department of Nuclear Science and Engineering: Exploring Quantum Geometry and Quantum Sensing with Spin Defects in Diamond

**Yifei Li**  
(September, 2022)  
Thesis in the field of Materials Science and Engineering: Developing Transition Metal Dichalcogenide Alloys for Applications to Integrated Photonics

**Yunzhu Li**  
(September, 2022)  
Thesis in the field of Electrical Engineering and Computer Science: Learning Structured World Models From and For Physical Interactions

**Muyuan Lin**  
(September, 2022)  
Thesis in the field of Mechanical Engineering: Geometrically and Temporally Consistent Robot Perception

**Bai Liu**  
(February, 2023)  
Thesis in the field of Communications and Networks submitted to the Department of Aeronautics and Astronautics: Optimal Control for Uncooperative Networks

**Alex Lombardi**  
(September, 2022)  
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Provable Instantiations of Correlation Intractability and the Fiat-Shamir Heuristic

**Seamus Joseph Holt Lombardo**  
Thesis in the field of Aeronautics and Astronautics: Remote Sensing and Integrated Systems Frameworks for Decision Support in Sustainable Development

**Ang-Yu Lu**  
Thesis in the field of Electrical Engineering and Computer Science: Artificial Intelligence-Aided Synthesis and Characterization of 2D Materials

**Kuangye Lu**  
Thesis in the field of Mechanical Engineering: Advanced Epitaxy on 2D Materials for Bottom-Up Heterointegration with Low-Defects and Membrane Production with High-Throughput

**Yuxuan Lu**  
Thesis in the field of Air Transportation Systems submitted to the Department of Aeronautics and Astronautics: Market-Based and Policy-Based Conditional Demand Forecaster for Airline Revenue Management

**Jaclyn R. Lunger**  
Thesis in the field of Materials Science and Engineering: Atom-by-Atom Designs of Metal Oxide Catalysts for the Oxygen Evolution Reaction

**Björn Malte Lütjens**  
Thesis in the field of Autonomous Systems submitted to the Department of Aeronautics and Astronautics: Machine Learning Emulators for Accessible Climate Projections

**Emi Alexandra Lutz**  
(September, 2022)  
Thesis in the field of Biological Engineering: Engineering Intratumoral Cytokine Therapies for Cancer

**Michael A. Luu**  
Thesis in the field of Aeronautics and Astronautics: Iterative Engineering, System Confidence, and In-Space Servicing Assembly & Manufacturing

**Joseph Haleem Maalouf**  
Thesis in the field of Chemical Engineering: Experimental and Computational Electrochemistry to Move toward Plastics Circularity

**Jonathan Vincent MacArthur**  
Thesis in the field of Aeronautics and Astronautics: Solid-State Flow Control for Ion Electrospray Propulsion

**Corina Nicole MacIsaac**  
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Overcoming Diffusion Limitations in Encapsulated Cell Therapy for Type 1 Diabetes

**Saurav Maji**  
Thesis in the field of Electrical Engineering and Computer Science: Energy-Efficient Security Solutions for Next-Generation Embedded Systems

**Aleksandar Aleksandrov Makelov**  
(September, 2022)  
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Towards Robust Machine Learning: Algorithms and Data

<b>Michael Vincent Martello</b> Thesis in the field of Civil and Environmental Engineering: Climate Change Adaptation Planning and Decision Making for Transit Infrastructure	<b>Yue Meng</b> (September, 2022) Thesis in the field of Civil and Environmental Engineering: Photoporomechanics: A New Technique to Explore Grain-Scale Mechanisms for Fluid-Driven Fractures in Granular Media	<b>Baichuan Mo</b> (September, 2022) Thesis in the field of Transportation submitted to the Department of Civil and Environmental Engineering: Toward a Resilient Public Transportation System: Effective Monitoring and Control under Service Disruptions
<b>Kelly J. Mathesius</b> Thesis in the field of Space Propulsion submitted to the Department of Aeronautics and Astronautics: Integrated Design of Solid Rocket Powered Vehicles Including Exhaust Plume Radiant Emission	<b>Isaac Chartrand Meyer</b> (February, 2023) Thesis in the field of Nuclear Science and Engineering: Flux-Independent Uncertainty Propagation of Nuclear Cross Section Data Using the Windowed Multipole Formalism	<b>Oscar Ricardo Moll Thomae</b> Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Efficiently searching for objects within large collections of image and video
<b>Caroline Taylor McCue</b> Thesis in the field of Mechanical Engineering: Controlling Protein and Cell Adhesion Through Interfacial Engineering for More Efficient Biomanufacturing	<b>Lu Mi</b> (September, 2022) Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Towards a Fast Automatic Connectomics Pipeline using Deep Learning	<b>Duncan Matthew Morgan</b> (September, 2022) Thesis in the field of Chemical Engineering: Integrated, Single-Cell Analysis of Transcriptional Phenotype and Clonotypic Identity
<b>Elaine D. McVay</b> (September, 2022) Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Visible and Infrared Light Detection Using 2D Materials	<b>Lucio Maria Milanese</b> Thesis in the field of Theoretical Plasma Physics submitted to the Department of Nuclear Science and Engineering: Turbulent Dynamics Under Two Ideal Invariants: Dynamic Phase Alignment in Plasmas and Nonionized Fluids	<b>William Steven Moses</b> Thesis in the field of Electrical Engineering and Computer Science: Compiler Abstractions and Transformations to Reduce Programming Burden
<b>Lucas P. Medeiros</b> (September, 2022) Thesis in the field of Civil and Environmental Engineering: Understanding and Predicting Responses of Ecological Communities to Perturbations	<b>Alex Brandon Miller</b> Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: A Blood Exchange Method to Study Circulation Kinetics of Tumor Cells in the Blood	<b>Saleet Mossel</b> (September, 2022) Thesis in the field of Computer Science and Engineering submitted to the Department of Electrical Engineering and Computer Science: On Deniable Computation and Sublinear Graph Algorithms
<b>Keegan Leigh Mendez</b> Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Multifunctional Soft Robotic Devices and Cardiac Benchtop Models for Improved Therapy Delivery and Development	<b>Nathaniel Loren Miller</b> (September, 2022) Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: On Epitope-Paratope Interactions of Emerging to Endemic Viruses	<b>Theodore Mouratidis</b> (September, 2022) Thesis in the field of Aeronautics and Astronautics: Low Temperature Solder Demountable Joints for Non-Insulated, High Temperature Superconducting Fusion Magnets
<b>Xianglin Meng</b> (September, 2022) Thesis in the field of Electrical Engineering and Computer Science: The Modeling Spectrum of Data-Driven Decision Making	<b>Rishabh Mittal</b> Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: A Continuous-Time Pipelined ADC with Reduced Sensitivity to Clock Jitter	<b>Saviz Mowlavi</b> (September, 2022) Thesis in the field of Mechanical Engineering: Forward and Inverse Problems in Mechanics: from a Single to Thousands of Interacting Bodies

<b>Mohamad Ali Toufic Najia</b> (February, 2023) Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Transposable Elements and the Regulatory Logic of Hematopoietic Differentiation	<b>Johannes Josef Norheim</b> (September, 2022) Thesis in the field of Engineering Systems submitted to the Department of Aeronautics and Astronautics: Mathematical Formulations in Conceptual Design, Analysis, and Optimization	<b>Tao Pang</b> (February, 2023) Thesis in the field of Mechanical Engineering: Planning, Sensing, and Control for Contact-Rich Robotic Manipulation with Quasi-Static Contact Models
<b>Sooraj Narayan</b> (February, 2023) Thesis in the field of Mechanical Engineering: Electro-Chemo-Mechanics of Solids: Application to All-Solid-State Batteries, Polyelectrolyte Gels, and Actuators.	<b>Xuefei Angelina Nou</b> Thesis in the field of Biological Engineering: Engineered Bacteria to Sense and Record Environmental DNA	<b>Jay Biren Patel</b> Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Improving Segmentation Pipelines for Medical Imaging Using Deep Learning
<b>Jennifer Kaczmarek Nash</b> (February, 2023) Thesis in the field of Chemical Engineering: Biosensor Application To Directed Enzyme Evolution for Improved Glucaric Acid Production	<b>Alexander David O'Brien</b> Thesis in the field of Nuclear Science and Engineering: Development of Materials for Extreme Environment Applications by Laser Powder Bed Fusion	<b>Jatin Jayesh Patil</b> Thesis in the field of Materials Science and Engineering: Rapidly-Deployable Materials Processing Approaches for Energy Applications and Chemical Separations
<b>Maya Nasr</b> Thesis in the field of Aeronautics and Astronautics: Innovation Challenges in NASA's Planetary Program and a Policy Framework for Sustainable and Equitable Space Resource Utilization	<b>Moses Teddy Ort</b> (September, 2022) Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Autonomous Navigation without HD Prior Maps	<b>Lagnajit Pattanaik</b> (February, 2023) Thesis in the field of Chemical Engineering: Towards Automated Reaction Kinetics with Message Passing Neural Networks
<b>Tatiana Sofia Netterfield</b> Thesis in the field of Biological Engineering: Combined Computational and Experimental Analysis of the Senescence-Proliferation Cell Decision After DNA Damage	<b>Crystal Elaine Owens</b> Thesis in the field of Mechanical Engineering: Extrusion Printing of Carbon Nanotube Inks, from Rheology to Electronics	<b>Colin Armstrong Pavan</b> Thesis in the field of Aeronautics and Astronautics: Nanosecond Pulsed Plasmas in Dynamic Combustion Environments
<b>Bertrand J. Neyhouse</b> Thesis in the field of Chemical Engineering: Rational Design Strategies for Redox Flow Batteries	<b>Sidhant J. Pai</b> (September, 2022) Thesis in the field of Atmospheric Chemistry and Composition Modeling submitted to the Department of Civil and Environmental Engineering: Investigating Secondary Atmospheric Aerosols Using Chemically-Speciated Observations and Targeted Model Development	<b>Allen Mark Payne</b> (February, 2023) Thesis in the field of Chemical Engineering: Generating Detailed Kinetic Models for Large Pyrolysis Systems
<b>Jerry Ng</b> Thesis in the field of Mechanical Engineering: Applications of the Koopman Operator: Novel Methods and Formulations for Lifted Linear Models	<b>Joseph Robert Palmeri</b> Thesis in the field of Chemical Engineering: Collagen Anchoring Agonist Antibodies for Cancer Immunotherapy	<b>Shourav Suhas Pednekar</b> Thesis in the field of Mechanical Engineering: High-Resolution Spatio-Temporal Quantification of Fish Predator-Prey Interactions over Ecosystem Scales with Multispectral Underwater Sensing and Optimality of Human Visual Perception with Natural Daylight
<b>Quynh Phuong Ngo</b> Thesis in the field of Materials Science and Engineering: The Use of Nanomaterials in Emulsions and Their Assembly at the Liquid-Liquid Interface	<b>Sreedath Panat</b> (February, 2023) Thesis in the field of Mechanical Engineering: Charged Interfaces and Their Applications in Energy Sustainability	<b>Alfonso Alexander Perez</b> Thesis in the field of Mechanical Engineering: Design of Lightweight Prefabricated Home Foundation Manufactured via Industrial Large-Scale Polymer Additive Manufacturing
<b>Tam Ngoc Thanh Nguyen</b> (February, 2023) Thesis in the field of Chemical Engineering: Systems Engineering for Viral Vector Manufacturing		

**Joshua Mark Peters**

(September, 2022)

Thesis in the field of Biological Engineering: Mapping and Modeling Macrophages in Tuberculosis

**Eveline Postelnicu**

(September, 2022)

Thesis in the field of Materials Science and Engineering: Low Temperature Heterogeneous Integration of Germanium on Silicon

**Eric Ryan Powers**

(February, 2023)

Thesis in the field of Chemical Engineering: Ultrafast Investigations of Exciton Dynamics in 0D and 2D Hybrid Semiconductor Nanomaterials

**Mihika Prabhu**

(February, 2023)

Thesis in the field of Electrical Engineering and Computer Science: Large-Scale Programmable Silicon Photonics for Quantum and Classical Machine Learning

**Prakash Prashanth**

(February, 2023)

Thesis in the field of Aerospace, Energy, and the Environment submitted to the Department of Aeronautics and Astronautics: Environmental Impacts of Aviation Propulsion Systems

**Francesc Xavier Puig Fernandez**

(February, 2023)

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: VirtualHome: Building Socially Intelligent Agents via Simulation

**Yujie Qian**

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: From Structured Document To Structured Knowledge

**Jack Yanjie Qiu**

(February, 2023)

Thesis in the field of Electrical Engineering and Computer Science: The Generation and Detection of Squeezed Microwave Photons Realized Using Traveling-Wave Parametric Amplifiers

**Victor Thanh-Tam Quach**

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Language Modeling with Guarantees

**Adityanarayanan Radhakrishnan**

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Foundations of Machine Learning: Over-Parameterization and Feature Learning

**Ameya Rao**

(February, 2023)

Thesis in the field of Chemical Engineering: Structure and Dynamics of Associative Polymer Gels

**Mitchell Burrows Robinson**

(September, 2022)

Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Interferometric, Acousto-Optic Modulated Diffuse Correlation Spectroscopy @ 1064 nm (AOM-iDCS) Toward Higher Sensitivity, Non-Invasive Measurement of Cerebral Blood Flow

**Kristen Alexandra Rodrigues**

Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: An Alum Particle-Based Platform to Enhance and Investigate Humoral Immune Responses to Immunization

**Sergio Andre Rodríguez Aponte**Thesis in the field of Biological Engineering: Streamlining Development of Biologics with *K. phaffii*, a Yeast Host Platform**Emily Rogers-Bradley**

(February, 2023)

Thesis in the field of Mechanical Engineering: Design and Evaluation of a Quasi-Passive Variable Stiffness Ankle-Foot Prosthesis to Improve Biomechanics Across Walking Speeds

**Zhumei Rohskopf**

Thesis in the field of Mechanical Engineering: Continuous Antibody Titer Assessment of the Biomanufacturing Process Using Nanofluidic Binding Assays

**Antoni Rosiñol Vidal**

(February, 2023)

Thesis in the field of Aeronautics and Astronautics: 3D Spatial Perception: With Real-Time Dense Metric-Semantic SLAM

**John Wesley Ryter**

Thesis in the field of Materials Science and Engineering: Mine to Table: Technology and Policy Strategies for Sustainable Mineral Supply Chains in the Low-Carbon Energy Transition

**Seungchan Ryu**

(February, 2023)

Thesis in the field of Mechanical Engineering: Protonic All-Solid-State Electrochemical Device as an Artificial Synapse for CMOS-Compatible Neuromorphic Computing

**Feras Ahmad Saad**

(September, 2022)

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Scalable Structure Learning, Inference, and Analysis with Probabilistic Programs

**Taqiyyah Sariyah Safi**

(September, 2022)

Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Tailoring Charge to Spin Conversion in Novel Materials for Efficient Spintronics

**Sachit Dinesh Saksena**

(September, 2022)

Thesis in the field of Computational and Systems Biology: Machine Guided Biological Discovery and Design

**Gabriel Orr Samach**

(February, 2023)

Thesis in the field of Electrical Engineering and Computer Science: Tangled Circuits: Characterizing Errors in Experimental Superconducting Quantum Processors

**Lindsay M. Sanneman**

Thesis in the field of Autonomous Systems submitted to the Department of Aeronautics and Astronautics: Transparent Value Alignment: Foundations for Human-Centered Explainable AI in Alignment

**Mayuran Saravanapavanantham**  
Thesis in the field of Electrical Engineering and Computer Science: Additive Manufacturing Towards Electronically-Active Surfaces

**Cassandra Schaening Burgos**  
(September, 2022)  
Thesis in the field of Computational and Systems Biology: Transcriptome-Wide Pseudouridine Profiling Reveals Modification of Critical *E. coli* mRNAs

**Kushal Seetharam**  
(September, 2022)  
Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Quantum Simulation of Many-Body Systems

**Joao Seixas De Medeiros**  
(February, 2023)  
Thesis in the field of Ocean Engineering submitted to the Department of Mechanical Engineering: Analytical and Numerical Studies of the Generation and Propagation of Nonlinear Water Waves by a Wavemaker

**Yanjie Shao**  
Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Ultra-Scaled III-V Vertical Tunneling Transistors

**Allison Mae Sheen**  
Thesis in the field of Biological Engineering: Engineering Tumor-Localized Therapies for Cancer - From Antioxidant Enzymes to Cytokines and Radiation Therapy

**Sara Ann Sheffels**  
Thesis in the field of Materials Science and Engineering: Proton Dynamics in Ultrathin Gadolinium Oxide Magneto-Ionic Devices

**Jiasi Shen**  
(September, 2022)  
Thesis in the field of Computer Science and Engineering submitted to the Department of Electrical Engineering and Computer Science: Program Inference and Regeneration via Active Learning

**Maxwell Aaron Sherman**  
(February, 2023)  
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: From Genetics to Disease: Algorithms to Decode Somatic Mutations

**Jessica Shi**  
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Bridging Theory and Practice in Parallel Clustering

**James Siderius**  
(February, 2023)  
Thesis in the field of Electrical Engineering and Computer Science: Understanding Social Media: Misinformation, Attention, and Digital Advertising

**Raspberry Antonia Simpson**  
(September, 2022)  
Thesis in the field of Nuclear Science and Engineering: Investigation of Laser-Driven Particle Acceleration for the Development of Tunable Ion Sources for Applications in High Energy Density Science

**Adam Andrzej Śliwiak**  
Thesis in the field of Computational Science and Engineering: Leveraging the Linear Response Theory in Sensitivity Analysis of Chaotic Dynamical Systems and Turbulent Flows

**Alexander J. Sludds**  
Thesis in the field of Electrical Engineering and Computer Science: Delocalized Photonic Deep Learning on the Internet's Edge

**Sydney Leigh Solomon**  
(February, 2023)  
Thesis in the field of Biological Engineering: Development of Tools to Quantitatively Probe Mycobacterium Tuberculosis-Induced Host Phagosomal and Signaling Responses

**Chen Song**  
Thesis in the field of Chemical Engineering: Fabrication of Electrospun Anti-Fouling Membranes for Emulsified Oil-in-Water Separation

**Hyuk Joon Song**  
Thesis in the field of Polymers and Soft Matter submitted to the Department of Materials Science and Engineering: Mechanics of Composite Hydrogels

**Hyun Geun Song**  
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Design and Control of Mechanoneural Interfaces for Neuroprosthetic Limbs

**Shashank Srikant**  
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Computational and Cognitive Models of Understanding Computer Programs

**Casper R. Stinn**  
Thesis in the field of Materials Science and Engineering: Pyrometallurgical Oxide-Sulfide Anion Exchange for Improved Material Separation and Metal Production

**Michael Austin Stolberg**  
Thesis in the field of Polymers and Soft Matter submitted to the Department of Materials Science and Engineering: Polymer Electrolyte Discovery via Rational Design and High Throughput Methods

**Hui Sun**  
(February, 2023)  
Thesis in the field of Structures and Materials submitted to the Department of Civil and Environmental Engineering: Template-Directed Assembly of Silk in Advanced Materials for Food Security

**Harini Sonia Suresh**  
(February, 2023)  
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Context-Grounded Machine Learning

**Daniel Hiroshi Suzuki**  
Thesis in the field of Materials Science and Engineering: Dzyaloshinskii-Moriya Interaction and Local Exchange Variation in Rare-Earth Transition-Metal Ferrimagnets

<b>Bazyli Mikołaj Szymański</b> (February, 2023) Thesis in the field of Air Transportation Systems submitted to the Department of Aeronautics and Astronautics: Continuous Pricing Algorithms for Airline RM: Theoretical Properties and Competitive Implications	<b>Jesús Tordesillas Torres</b> (September, 2022) Thesis in the field of Controls submitted to the Department of Aeronautics and Astronautics: Trajectory Planning for Flights in Multiagent and Dynamic Environments	<b>Nikhil Vyas</b> (February, 2023) Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Satisfiability Algorithms and Connections between Algorithms and Circuit Lower Bounds
<b>Anthony Tabet</b> (February, 2023) Thesis in the field of Chemical Engineering: Recording and Reprogramming Neuroimmunity in Cancer	<b>Tyler Daniel Toth</b> (September, 2022) Thesis in the field of Biological Engineering: Engineering Plant-Microbe Communication	<b>Charles Tai-Chieh Wan</b> (February, 2023) Thesis in the field of Chemical Engineering: Designer Porous Carbon Electrodes for Redox Flow Batteries
<b>Orion Thomas Taylor</b> Thesis in the field of Mechanical Engineering: Manipulation of Unknown Objects via Contact Configuration Regulation	<b>Amelia Jo Trainer</b> Thesis in the field of Nuclear Science and Engineering: Hydrogen Distribution in Metal Hydrides and its Effect on Reactor Physics Calculations	<b>Andrew J. Wang</b> (September, 2022) Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Risk-Bounded Dynamic Scheduling of Temporal Plans
<b>Kevin Michael Tenny</b> (See also M.B.A., Course XV) Thesis in the field of Chemical Engineering Practice submitted to the Department of Chemical Engineering: Combining Computation and Experimentation for Accelerated Understanding of Electrode Microstructure in Redox Flow Batteries	<b>Geoffrey Vaartstra</b> Thesis in the field of Mechanical Engineering: Kinetics of Heat and Mass Transfer Near the Liquid-Vapor Interface	<b>Guoqing Wang</b> Thesis in the field of Quantum Science and Engineering submitted to the Department of Nuclear Science and Engineering: Quantum Sensing and Simulation with Solid-State Defects
<b>Sri Gowtham Thakku Venkateswaran</b> (September, 2022) Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Modular CRISPR-Diagnostics for Infectious Diseases	<b>Kapil Eknath Vaidya</b> (February, 2023) Thesis in the field of Computer Science and Engineering submitted to the Department of Electrical Engineering and Computer Science: Instance-Optimized Data Structures for Membership Queries	<b>Kevin K. Wang</b> (February, 2023) Thesis in the field of Air Transportation Systems submitted to the Department of Aeronautics and Astronautics: Airline Dynamic Offer Creation Using a Markov Chain Choice Model
<b>Huanhuan Tian</b> (February, 2023) Thesis in the field of Chemical Engineering: Nonlinear Ion Transport at High Electric Currents in Shock Electrodialysis and Ion-Intercalation Memories	<b>Jessica Raquelle Van Brummelen</b> (September, 2022) Thesis in the field of Electrical Engineering and Computer Science: Empowering K-12 Students to Understand and Design Conversational Agents: Concepts, Recommendations, and Development Platforms	<b>Li-Wen Wang</b> (February, 2023) Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Macrophage-Hitchhiking Anisotropic Microparticles for Therapeutic and Diagnostic Applications
<b>Yonglong Tian</b> (February, 2023) Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Towards General-Purpose Vision via Multiview Contrastive Learning	<b>Connor Anthony Verheyen</b> Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Data-Driven Approaches for Complex Systems: Leveraging Machine Learning, Materials Science, and Manufacturing for New Biomedical Technologies	<b>Shaoxiong Wang</b> (September, 2022) Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Interactive Touch for Manipulation
	<b>Laurens Jozef Amandine Voet</b> (February, 2023) Thesis in the field of Aeronautics and Astronautics: A Quantitative Assessment of Advanced Take-Off Trajectories for Supersonic Transport Noise Reduction	<b>Wujie Wang</b> (September, 2022) Thesis in the field of Materials Science and Engineering: Differentiable Multiscale Molecular Simulations

<b>Yiqiu Wang</b> Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Fast Parallel Algorithms and Library for Spatial Clustering and Computational Geometry	<b>Yannan Wu</b> Thesis in the field of Electrical Engineering and Computer Science: Systematic Modeling and Design of Sparse Deep Neural Network Accelerators	<b>Qian Xu</b> (February, 2023) Thesis in the field of Mechanical Engineering: Thermoelectric Energy Conversion: First-Principles Simulations, Energy Harvesting, and Deep Cooling Systems
<b>Zhiyi Wang</b> (September, 2022) Thesis in the field of Aeronautics and Astronautics: Computational Modeling of Elastic and Transformation Incompatibility at Grain Boundaries in Shape Memory Materials	<b>Spencer Thomas Wyant</b> (February, 2023) Thesis in the field of Materials Science and Engineering: Modeling Interfacial Thermal Transport with Molecular Dynamics: The Challenge of Making Accurate Comparisons to Experiment	<b>Mantian Xue</b> (February, 2023) Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Graphene-Based Biochemical Sensing Array: Materials, System Designs and Data Processing
<b>Ella Louise Wassweiler</b> (February, 2023) Thesis in the field of Electrical Engineering and Computer Science: Vapor Transport Deposition for Perovskite Solar Cells	<b>Yu Xia</b> (September, 2022) Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Towards a Cryptographically Verifiable Database Management System	<b>Adam Uri Yaari</b> (February, 2023) Thesis in the field of Electrical Engineering and Computer Science: Untangling the Complexity of Nature: Machine-Learning for Accelerated Life-Sciences
<b>Thejas Satish Wesley</b> Thesis in the field of Chemical Engineering: The Electrochemical Nature of Non-Faradaic Catalysis at Interfaces	<b>Kai Yuanqing Xiao</b> (September, 2022) Thesis in the field of Electrical Engineering and Computer Science: Probing, Improving, and Verifying Machine Learning Model Robustness	<b>Heng Yang</b> (September, 2022) Thesis in the field of Mechanical Engineering: Certifiable Outlier-Robust Geometric Perception
<b>Charles Michael Wheeler</b> Thesis in the field of Mechanical Engineering: Inertial Hysteresis Couplings	<b>Haowei Xu</b> (February, 2023) Thesis in the field of Quantum Science and Engineering submitted to the Department of Nuclear Science and Engineering: Optical Control over Nuclear Spins	<b>Jingfan Yang</b> (February, 2023) Thesis in the field of Chemical Engineering: Experiments and Simulations of Autonomous Microscale Robotics
<b>Robert Michael Wilson</b> (September, 2022) Thesis in the field of Biological Engineering: High Throughput Screening for Small Molecule Interactions with Nucleic Acid Binding Proteins	<b>Jie Xu</b> (September, 2022) Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Towards Computational Design of Shape and Control for Rigid Robots	<b>Karen Dai Yang</b> (September, 2022) Thesis in the field of Biological Engineering: Machine Learning Approaches for Data Integration and Translation in Single-Cell Biology
<b>Ralph Wiser</b> (February, 2023) Thesis in the field of Nuclear Science and Engineering: A First Complete Approach to Address Model Error in Computational Turbulent Heat Transfer	<b>Junshen Xu</b> Thesis in the field of Electrical Engineering and Computer Science: A Robust and Efficient Framework for Slice-to-Volume Reconstruction: Application to Fetal MRI	<b>Yichen Yang</b> Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Player Capability and Locally Sub-Optimal Behavior in Strategic Games
<b>Alexander Po-Yen Wu</b> Thesis in the field of Computational and Systems Biology: Towards Causality in Gene Regulatory Network Inference	<b>Lei Xu</b> (February, 2023) Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Towards Deployable Robust Text Classifiers	<b>Wenjie Yao</b> (September, 2022) Thesis in the field of Electrical Engineering and Computer Science: Inverse Design of Random Emitters in Nanophotonics
<b>Chloe Michelle Wu</b> Thesis in the field of Biological Engineering: Examining How Mucins and Their Associated O-Glycans Shape Oral Microbial Communities		

<b>Chia-Chen Yu</b> (February, 2023) Thesis in the field of Electrical Engineering and Computer Science: Conformable Ultrasound Face Patch for Cavitation-Enhanced Transdermal Cosmeceutical Delivery	<b>Haoquan Zhang</b> (September, 2022) Thesis in the field of Electrical Engineering and Computer Science: Techniques for Efficient Wide-Range Radio-Frequency Power Generation System	<b>Yirui Zhang</b> (February, 2023) Thesis in the field of Mechanical Engineering: Revealing Interfacial Reactions and Charge Transfer Kinetics in Electrochemical Energy Storage and Conversion
<b>Suhyoun Yu</b> (September, 2022) Thesis in the field of Mechanical Engineering: Study of Human Behavioral Models for Engineering Applications	<b>Lenan Zhang</b> (September, 2022) Thesis in the field of Mechanical Engineering: Understanding Heat Transport at Interfaces for Thermal Management of Electronics	<b>Zhengxing Zhang</b> Thesis in the field of Electrical Engineering and Computer Science: Adjoint Methods and Inverse Modeling for Process Variation Analysis in Silicon Photonics
<b>Tiancheng Yu</b> Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Near-Optimal Learning in Sequential Games	<b>Paul Zhang</b> Thesis in the field of Electrical Engineering and Computer Science: Surpassing Local Optimality in Geometry Processing	<b>Zhoutong Zhang</b> (September, 2022) Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Pursuing Mid-Level Perception from Casual Videos
<b>Chenyang Yuan</b> (September, 2022) Thesis in the field of Electrical Engineering and Computer Science: Polynomial Structure in Semidefinite Relaxations and Non-Convex Formulations	<b>Pengxiang Zhang</b> (February, 2023) Thesis in the field of Electrical Engineering and Computer Science: Current-Induced Dynamics of Easy-Plane Antiferromagnets	<b>Yajing Zhao</b> (September, 2022) Thesis in the field of Mechanical Engineering: Scalable Micro / Nanostructured Surfaces for Thin-Film Condensation Heat Transfer Enhancement in Steam Power Plants
<b>Mengyang Yuan</b> (September, 2022) Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: GaN Electronics for High Temperature Applications	<b>Qihang Zhang</b> (February, 2023) Thesis in the field of Electrical Engineering and Computer Science: Learning-Based Correlation Analysis Between Laser Speckle and Surface Size Distribution	<b>Muni Zhou</b> (September, 2022) Thesis in the field of Applied Plasma Physics submitted to the Department of Nuclear Science and Engineering: Genesis, Dynamics, and Dissipation of Turbulent Magnetic Fields
<b>Joy Shuang Zeng</b> Thesis in the field of Chemical Engineering: Traversing Catalytic Contexts for Interrogation and Design of Carbon Conversion Electrocatalysts	<b>Qing Zhang</b> (September, 2022) Thesis in the field of Mechanical Engineering: Instabilities and Flow-Induced Structures in Anisotropic Systems	<b>Yilun Zhou</b> (February, 2023) Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Techniques for Interpretability and Transparency of Black-Box Models
<b>Ge Zhang</b> (February, 2023) Thesis in the field of Chemical Engineering: Power Sources for Sensors and Robots in Remote and Inaccessible Environments	<b>Qiong Zhang</b> (February, 2023) Thesis in the field of Mechanical Engineering and Computation submitted to the Department of Mechanical Engineering: Model Development Based on Discrete Particle Simulations of Partially-and Fully-Saturated Granular Media	<b>Hejian Zhu</b> Thesis in the field of Geotechnical and Geoenvironmental Engineering submitted to the Department of Civil and Environmental Engineering: Multiscale Modelling of the Mechanical Behavior of Clay
<b>Guo Zhang</b> (September, 2022) Thesis in the field of Electrical Engineering and Computer Science: Passive Health Monitoring with Radio Waves - In Body and In Home	<b>Shun Zhang</b> (September, 2022) Thesis in the field of Computational Science and Engineering: Three-Dimensional Integral Boundary Layer Method for Viscous Aerodynamic Analysis	<b>Yuntong Zhu</b> Thesis in the field of Materials Science and Engineering: High Entropy Amorphous and Crystalline Li-Garnet Films for Lithionic Applications

**Tomer Zohar**

(September, 2022)

Thesis in the field of Biological  
Engineering: Methods, Models, and  
Machine Learning Approaches for  
Understanding Pathogen-Specific  
Humoral Immunity

## SCHOOL OF HUMANITIES, ARTS, AND SOCIAL SCIENCES, DOCTORAL

### **Doctor of Philosophy**

School of Humanities, Arts, and Social Sciences

#### **Daniel Joseph Aronoff**

(September, 2022)

Thesis in the field of Economics: Essays on Incentive Designs to Improve Market Performance

#### **Allison Kaitlin Balin**

(September, 2022)

Thesis in the field of Philosophy submitted to the Department of Linguistics and Philosophy: A Defense of Impermissivism

#### **Christopher James Baron**

(September, 2022)

Thesis in the field of Linguistics submitted to the Department of Linguistics and Philosophy: The Logic of Subtructives or, Barely Anyone Tried Almost as Hard as Me

#### **Paige Holbrook Bollen**

Thesis in the field of Political Science: Context, Contact, and Intergroup Relations in Sub-Saharan Africa

#### **Tatiana Igorevna Bondarenko**

(September, 2022)

Thesis in the field of Linguistics submitted to the Department of Linguistics and Philosophy: Anatomy of an Attitude

#### **Oguzhan Celebi**

Thesis in the field of Economics: Essays in Economic Theory

#### **Yong Chen**

(September, 2022)

Thesis in the field of Linguistics submitted to the Department of Linguistics and Philosophy: Asymmetries in Presupposition Projection: Processing and Acquisition

#### **Yizhuang Alden Cheng**

Thesis in the field of Economics: Essays in Health Economics and Applied Econometrics

#### **Jonathan Palm Cohen**

Thesis in the field of Economics: Essays on Unemployment

#### **Joel Peter Flynn**

Thesis in the field of Economics: Essays in Behavioral Macroeconomics and Mechanism Design

#### **Ying Gao**

(September, 2022)

Thesis in the field of Political Science: Essays on the Political Behavior of Economic Informality and Public Goods

#### **Lyndal Jennifer Grant**

(February, 2023)

Thesis in the field of Philosophy submitted to the Department of Linguistics and Philosophy: Wanting to Do What's Right

#### **Adam Harris**

Thesis in the field of Economics: Essays in Industrial Organization

#### **Lauren Kapsalakis**

(September, 2022)

Thesis in the field of History, Anthropology, and Science, Technology, and Society submitted to the Program in Science, Technology, and Society: The Loss of Integration Vs. Unity in Diversity: American Anthropology in the 1970s and 1980s and the Founding of the Society for Cultural Anthropology

#### **Rijul Kochhar**

(September, 2022)

Thesis in the field of History, Anthropology, and Science, Technology, and Society submitted to the Program in Science, Technology, and Society: Antibiotic Resistance, Planetary Crisis, and Bacteriophage Futures in the 21st Century

#### **Giacomo Lanzani**

Thesis in the field of Economics: Essays in Economic Theory

#### **Crystal Lee**

(September, 2022)

Thesis in the field of History, Anthropology, and Science, Technology, and Society submitted to the Program in Science, Technology, and Society: Sensory Encounters in the Age of Computation

#### **Andre Medeiros Sztutman**

Thesis in the field of Economics: Essays on Public Finance and Information Economics

#### **Aidan James Milliff**

(September, 2022)

Thesis in the field of Political Science: Seeking Safety: The Cognitive Foundations of Civilian Behavior during Violence

#### **Gabriel Charlie John Magnus Nahmias**

(September, 2022)

Thesis in the field of Political Science: Soft Skills and Hard Work: The Role of Relational Labor in the Supply of Political Organizing

#### **Thi Mai Anh Nguyen**

Thesis in the field of Economics: Essays on Long-Term Relationships and Networks

#### **Lukas Wolters Osman Freiheyt**

(September, 2022)

Thesis in the field of Political Science: Essays on the Political Economy of Inequality, Wealth, and Money

#### **Abigail Jean Hoenig Ostriker**

Thesis in the field of Economics: Essays on the Economics of Environmental and Health Risk

#### **Indira Puri**

(See also S.M., Course XIV)

Thesis in the field of Economics: Simplicity and Choice

#### **Ryan Ravanpak**

(September, 2022)

Thesis in the field of Philosophy submitted to the Department of Linguistics and Philosophy: Biological Life and the Partiality Relation

<b>Blair Michelle Read</b> (September, 2022) Thesis in the field of Political Science: When Voice Leads to Exit: \\ Democracy, Development, and Private Provision	<b>John Anton Sturm</b> Thesis in the field of Economics: Essays on Economic Policy Design
<b>Haley Schilling</b> (September, 2022) Thesis in the field of Philosophy submitted to the Department of Linguistics and Philosophy: Practical Epistemology: Essays on What to Think and What to Do	<b>Meicen Sun</b> (September, 2022) Thesis in the field of Political Science: The Double-Edged Effect of Information Control and How It Consolidates Autocratic Rule in the Digital Age
<b>Garima Sharma</b> Thesis in the field of Economics: Essays in Development and Labor Economics	<b>Diana Sverdin Lisker</b> Thesis in the field of Economics: Essays on Development Economics
<b>Joseph N. Shayani</b> (September, 2022) Thesis in the field of Economics: Essays on Interviews and Matching	<b>John Tylko</b> (February, 2023) Thesis in the field of History, Anthropology, and Science, Technology, and Society submitted to the Program in Science, Technology, and Society: Simulating Apollo: Flight Simulation Technology 1945-1975
<b>Emilia Simison</b> (September, 2022) Thesis in the field of Political Science: Resetting Public Policy? Democracies, Dictatorships, and Policy Change	<b>Martina Uccioli</b> Thesis in the field of Economics: Essays in Labor Economics
<b>Rahul Singh</b> Thesis in the field of Economics and Statistics: Essays on Econometrics, Causal Inference, and Machine Learning	<b>Suhas Vijaykumar</b> Thesis in the field of Economics and Statistics: Statistical Learning and Uncertainty Quantification
<b>Elena Sobrino</b> Thesis in the field of History, Anthropology, and Science, Technology, and Society submitted to the Program in Science, Technology, and Society: Living with Crisis: Family, Labor, and Environment in Flint, Michigan	<b>Mallory Webber</b> (September, 2022) Thesis in the field of Philosophy submitted to the Department of Linguistics and Philosophy: Moderate Modal Metaphysics
<b>Michelle Spektor</b> (February, 2023) Thesis in the field of History, Anthropology, and Science, Technology, and Society submitted to the Program in Science, Technology, and Society: From Documents to Data: The Emergence of National Biometric Identification Systems in the 20th and 21st Centuries	<b>Danfeng Wu</b> (September, 2022) Thesis in the field of Linguistics submitted to the Department of Linguistics and Philosophy: Syntax and Prosody of Coordination
<b>Frank Joseph Staniszewski</b> (September, 2022) Thesis in the field of Linguistics submitted to the Department of Linguistics and Philosophy: Modality and Time in Logical Context	<b>Xinhe Wu</b> (September, 2022) Thesis in the field of Philosophy submitted to the Department of Linguistics and Philosophy: Boolean- Valued Models and Their Applications
	<b>Margaret Bess Yellen</b> Thesis in the field of Economics: Essays in Industrial Organization and Labor Economics

## SLOAN SCHOOL OF MANAGEMENT, DOCTORAL

### **Doctor of Philosophy** Sloan School of Management

**Jackie Wonjae Baek**  
(September, 2022)  
Thesis in the field of Operations  
Research: Decision-Making Under Uncertainty: From Theory to Practice

**Léonard David Jean Boussioux**  
Thesis in the field of Operations  
Research: Multimodality: Models, Algorithms, and Applications

**Yiqun Cao**  
(September, 2022)  
Thesis in the field of Management:  
Understanding Video Ads on Social Media Platforms

**Wenyu Chen**  
Thesis in the field of Operations  
Research: Optimization Methods for Machine Learning under Structural Constraints

**Allison Taylor Cole**  
Thesis in the field of Management: Essays in Financial Economics

**Vasileios Digalakis**  
Thesis in the field of Operations  
Research: Analytics under Variability, Volume, and Velocity with Applications to Sustainability and Healthcare

**Patricio Tomas Foncea Araneda**  
(September, 2022)  
Thesis in the field of Operations  
Research: Learning and Optimization in Modern Retail

**Emma Lauren Gibson**  
(September, 2022)  
Thesis in the field of Operations  
Research: Optimizing Healthcare Delivery in Resource-Limited Settings

**Samuel Paul Gilmour**  
Thesis in the field of Operations  
Research: Allocating Scarce Resources: Modeling and Optimization

**Xiaoyue Gong**  
Thesis in the field of Operations  
Research: Data-Driven Decision Making in Operations Management

**Wesley Hatch Greenblatt**  
Thesis in the field of Management: Essays on Biomedical Innovation

**Marat Ibragimov**  
Thesis in the field of Management:  
Product Returns Management in Online Retail

**Jonathan E. Jensen**  
Thesis in the field of Management: Essays in Municipal Finance

**Maziar Mahdavi Kazemi**  
(September, 2022)  
Thesis in the field of Management: Three Essays in Financial Economics

**Soomi Kim**  
Thesis in the field of Management: Essays on the Production of Ideas

**Alexander Marion Kowalski**  
(September, 2022)  
Thesis in the field of Management:  
Terrible Timing: The Causes and Consequences of Problematic Work Schedules

**Jason Cheuk Nam Liang**  
Thesis in the field of Operations  
Research: Automated Data-driven Algorithm and Mechanism Design in Online Advertising Markets

**Emily Meigs**  
(September, 2022)  
Thesis in the field of Operations  
Research: Information and Incentives in Online Platforms

**Liangyuan Na**  
Thesis in the field of Operations  
Research: Optimal Decision Making for Healthcare Operations: Models and Implementation

**James Edward Paine**  
Thesis in the field of Management: Essays on Dynamic Supply Chains and Service Delivery Systems

**Ioannis Spantidakis**  
(September, 2022)  
Thesis in the field of Operations  
Research: Constrained Inventory Optimization on Complex Warehouse Networks

**Fransisca Susan**  
Thesis in the field of Operations  
Research: Combinatorial Learning for Online Marketplaces

**Hagay Constantin Volvovsky**  
Thesis in the field of Management:  
Collaborating at the Tower of Babel:  
The Meaning of Cooperation and the Foundations of Long-Term Exchange

**Joshua Todd Wilde**  
(February, 2023)  
Thesis in the field of Operations  
Research: Analytics-Enabled Quality and Safety Management Methods for High-Stakes Manufacturing Applications

**Rachel Seou Yoon**  
Thesis in the field of Management:  
Do Mandated Risk Disclosures Affect Corporate Risk-Taking?

**Jiaheng Yu**  
Thesis in the field of Management: Essays on Corporate Finance and Financial Markets

**Yunhao Zhang**  
Thesis in the field of Management:  
Essays on Mechanisms Underlying Belief Updating with Applications in Wisdom of Crowds

**Renbo Zhao**  
Thesis in the field of Operations  
Research: New Theory and Algorithms for Convex Optimization with Non-Standard Structures

**Andrew Terence Zheng**  
Thesis in the field of Operations  
Research: Experimentation and Control in Online Platforms

## SCHOOL OF SCIENCE, DOCTORAL

### **Doctor of Philosophy**

School of Science

#### **Sameer Abraham**

(September, 2022)

Thesis in the field of Physics: Patterns and Processes Driving Chromosome Organization

#### **Nile S. Abularage**

(February, 2023)

Thesis in the field of Chemistry submitted to the Department of Chemistry: Bioorthogonal Reagents: Design, Synthesis, and Reactivity

#### **Saleh M. Al Nasser**

(February, 2023)

Thesis in the field of Geophysics submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Non-Uniqueness in Fluid-Flow Modeling

#### **Samuel Jonathan Allon**

(September, 2022)

Thesis in the field of Chemistry submitted to the Department of Chemistry: Consequences and Limits of Cell-Cell Communication in Airway Immune Responses

#### **Moses Jeremy Amdur**

(September, 2022)

Thesis in the field of Chemistry submitted to the Department of Chemistry: Chemical Control of the Spin-Phonon Interaction to Develop a New Generation of Molecular Quantum Bits

#### **Ranjan Anantharaman**

(February, 2023)

Thesis in the field of Mathematics: Approximation of Large Stiff Acausal Models

#### **Alyssa Joan Anderson**

Thesis in the field of Biochemistry submitted to the Department of Biology: Insights into the Substrate Specificities, Interactions and Regulatory Mechanisms of Bacterial Glycoconjugate Biosynthesis Enzymes

#### **Yan Sheng Ang**

Thesis in the field of Mathematics: Dynamical Statistics for Power Series and Polynomials with Restricted Coefficients

#### **Eric Ricardo Anschuetz**

Thesis in the field of Physics: The Trainability and Expressivity of Quantum Machine Learning Models

#### **Juncal Arbelaitz Mugica**

(September, 2022)

Thesis in the field of Mathematics: Optimal Distributed Control and Estimation for Systems with Spatiotemporal Dynamics

#### **Constantin Wicaksono Arnscheidt**

Thesis in the field of Earth Atmospheric, and Planetary Sciences submitted to the Department of Earth Atmospheric, and Planetary Sciences: Four Problems in Nonlinear Earth System Dynamics

#### **Jenna Lauren Aronson**

Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: Developing Tools to Physically Magnify Biological Substrates for Clinical Applications

#### **Edward Daisuke Badding**

Thesis in the field of Chemistry submitted to the Department of Chemistry: Site-Selective Labeling of the Nitrogenase Iron-Molybdenum Cofactor

#### **Pierre Barral**

Thesis in the field of Physics: Elastic and Inelastic Dipolar Scattering

#### **Patrick Beaudry**

(September, 2022)

Thesis in the field of Geochemistry submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Experimental, Geochemical, and Isotopic Insights on Melting and Degassing Behavior on Earth

#### **David Anthony Berardo**

Thesis in the field of Physics: Exoplanetary Systems in Technicolor

#### **Aaron Joshua Berger**

Thesis in the field of Mathematics: Applications of the Regularity Method in Combinatorics

#### **Hannah Michelle Bernstein**

Thesis in the field of Biochemistry submitted to the Department of Biology: Biochemical Characterization of Glycan Assembly Pathway Enzymes

#### **Andrea Sylvia Biscoveanu**

Thesis in the field of Physics: From Black Holes to the Big Bang: Astrophysics and Cosmology with Gravitational-Waves and Their Electromagnetic Counterparts

#### **Ekaterina Bolotskaya**

(February, 2023)

Thesis in the field of Geophysics submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Effects of Fault Failure Parameterization and Bulk Rheology on Earthquake Rupture

#### **Sonia Anne Boor**

(September, 2022)

Thesis in the field of Biology: Genetic Analysis of Behavioral Plasticity in Response to Changing Food Environments in *Caenorhabditis Elegans*

#### **Kaley Virginia Brauer**

Thesis in the field of Physics: Formation History of the Milky Way and the Origins of Heavy Elements

#### **Elizabeth Ann Brija**

Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: Alternative Splicing and RNA Editing of the Complexin C-terminus Regulates Neurotransmitter Release in *Drosophila*

#### **Alexandra Carol Brown**

Thesis in the field of Chemistry submitted to the Department of Chemistry: Coordination Chemistry of Fe-S Clusters Supported by N-Heterocyclic Carbenes

#### **Douglas Raymond Brown**

(September, 2022)

Thesis in the field of Biology: MFSD7C is an ATP Transporter that Supports Bacterial Killing by Alveolar Macrophages in a Lipid-Rich Microenvironment

**Lindsey Orgren Calabretta**

(September, 2022)

Thesis in the field of Chemistry submitted to the Department of Chemistry: Guanidinium Compounds: Synthesis, Oxoanion Binding, and Cellular Delivery

**Alex Joseph Callahan**

Thesis in the field of Chemistry submitted to the Department of Chemistry: Automated Flow Synthesis of Biomacromolecules

**Jaclyn Marie Camuglia**

(September, 2022)

Thesis in the field of Biology: Morphogenetic Forces Planar Polarize LGN/Pins in the Embryonic Head during Drosophila Gastrulation

**Michael Alan Cantara**

(February, 2023)

Thesis in the field of Physics: Dipolar Shielding and Sub-Wavelength Bilayers in a Quantum Gas of Dysprosium

**Alex Wai Chan**

Thesis in the field of Biology: Analysis of CDPK1 Targets Identifies a Trafficking Adaptor Complex That Regulates Microneme Exocytosis in Toxoplasma

**Tianyang Chen**

Thesis in the field of Chemistry submitted to the Department of Chemistry: Structure- and Composition-Performance Relationships of Electrically Conductive Metal-Organic Frameworks, Conjugated Porous Organic Polymers, and Fused Aromatics

**Sinho Chewi**

Thesis in the field of Mathematics and Statistics submitted to the Department of Mathematics: An Optimization Perspective on Log-Concave Sampling and Beyond

**Junyi Chu**

Thesis in the field of Cognitive Science submitted to the Department of Brain and Cognitive Sciences: Goals, Play, and Cognitive Pragmatism

**Steven Michael Colvin**

(February, 2023)

Thesis in the field of Biology: Models of Autism Spectrum Disorder: Fragile X Syndrome and Rett Syndrome

**Valentin Didier Marie Claude Crépel**

(September, 2022)

Thesis in the field of Physics: Three-Particle Mechanism for Unconventional Superconductivity, Theory and Potential Applications

**Karen Guadalupe Cruz**

(February, 2023)

Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: Prefrontal-Collicular Interactions in Visually Guided Behavior

**Madeline Cusimano**

(September, 2022)

Thesis in the field of Cognitive Science submitted to the Department of Brain and Cognitive Sciences: Listening with Generative Models

**Léo Delage-Laurin**

Thesis in the field of Chemistry submitted to the Department of Chemistry: Investigation of Electronic Molecular Materials with Magneto-Optical and Magnetic Properties

**Alejandro Diaz**

(February, 2023)

Thesis in the field of Physics: Through Iron &amp; Ice: Searching for Sterile Neutrinos at the IceCube Neutrino Observatory

**Diomedes Dieppa-Matos**

(September, 2022)

Thesis in the field of Chemistry submitted to the Department of Chemistry: Reactive Peptides for Site-Selective Cysteine and Lysine Bioconjugation

**Leon Ding**

Thesis in the field of Physics: Novel Gates with Superconducting Fluxonium Qubits

**Zhiyu Dong**

Thesis in the field of Physics: Chiral Stoner Magnetism in Dirac Bands

**Chenru Duan**

(September, 2022)

Thesis in the field of Chemistry submitted to the Department of Chemistry: Quantum Chemistry Meets Machine Learning: Autonomous Computational Workflow for Chemical Discovery

**Aarti Dwivedi**

(September, 2022)

Thesis in the field of Geophysics submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Slow Slip Events in Cascadia

**Zackery Ely**

(February, 2023)

Thesis in the field of Computational and Systems Biology submitted to the Department of Biology: A Broadened HLA Ligandome Uncovers New Immunotherapy Targets for Pancreatic Cancer and a Prime Editor Mouse to Model a Broad Spectrum of Somatic Mutations

**Zahra Essack**

Thesis in the field of Planetary Sciences submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Detection and Characterization of Hot Super-Earth Exoplanets

**Nathan Hikaru Faialaga**

(February, 2023)

Thesis in the field of Chemistry submitted to the Department of Chemistry: Tandem Benzannulation-Cyclization Strategies for the Synthesis of Highly Substituted Indoles

**Jenelle Jo Feather**

(February, 2023)

Thesis in the field of Cognitive Science submitted to the Department of Brain and Cognitive Sciences: Evaluating Machine Learning Models of Sensory Systems

**Olivia Christine Fiebig**

(September, 2022)

Thesis in the field of Chemistry submitted to the Department of Chemistry: Understanding Ultrafast Energy Transfer across the Photosynthetic Membrane of Purple Bacteria with Near-Native Systems

**Andrew Frederick Franc**

(September, 2022)

Thesis in the field of Cognitive Science submitted to the Department of Brain and Cognitive Sciences: Insights Into Ecological Sounds Localization via Machine Learning Based Models

**John Randolph Frank**

Thesis in the field of Physics: Ordering of Curving Interfaces

<b>Yuqiu Fu</b> Thesis in the field of Mathematics: Fourier Decoupling for Convex Sequences	<b>Kevin Robert Gozzi</b> (September, 2022) Thesis in the field of Biology: Gene Transfer Agents Promote Survival and DNA Repair during Stationary Phase for <i>Caulobacter crescentus</i>	<b>Stephanie M. Hart</b> (September, 2022) Thesis in the field of Chemistry submitted to the Department of Chemistry: Exciton Dynamics in DNA- Chromophore Assemblies
<b>Zhenghao Fu</b> (September, 2022) Thesis in the field of Physics, Statistics, and Data Science submitted to the Department of Physics: First Step into A New Physics Realm: Search for the Majorana Nature of Neutrinos in the Inverted Mass Ordering Region	<b>Anthony Valenti Grebe</b> (September, 2022) Thesis in the field of Physics: Probing the Frontiers of the Standard Model with Lattice QCD	<b>Thomas Richard Hartke</b> (September, 2022) Thesis in the field of Physics: Fermion Pairing and Correlations Under a Quantum Gas Microscope
<b>Shengwen Gan</b> Thesis in the field of Mathematics: The Restricted Projection Problems	<b>Simon Benedikt Grosse-Holz</b> Thesis in the field of Physics: Dynamics of Genome Organization	<b>Qilin He</b> (February, 2023) Thesis in the field of Chemistry submitted to the Department of Chemistry: Ring-Opening Metathesis Polymerization for the Creation of Responsive Colloids and Surfaces
<b>Paritosh Gangaramani</b> (September, 2022) Thesis in the field of Biology: The Roles of the Mcm2-7 Tails in Replication Initiation	<b>Chantal Katrin Guegler</b> (February, 2023) Thesis in the field of Molecular Biology submitted to the Department of Biology: The Role of a Toxin-Antitoxin System in the Arms Race between Bacteria and Phage	<b>Matthias Hofer</b> (February, 2023) Thesis in the field of Cognitive Science submitted to the Department of Brain and Cognitive Sciences: The Cultural Emergence of Combinatorial Structure
<b>Francisco J. Garcia</b> Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: Molecular Profiling and Mechanisms of Cerebrovascular Function in Health and Neurodegeneration	<b>Feng Gui</b> Thesis in the field of Mathematics: Liouville Properties and Dimensionality Bounds for Harmonic and Caloric Functions	<b>Sean Dae Houlihan</b> (September, 2022) Thesis in the field of Cognitive Science submitted to the Department of Brain and Cognitive Sciences: A Computational Framework for Emotion Understanding
<b>Jonathan Raymond Gauthier</b> Thesis in the field of Cognitive Science submitted to the Department of Brain and Cognitive Sciences: Multi-Level Modeling of Language Processing in the Mind and Brain	<b>Ellen Jane Guss</b> Thesis in the field of Biology: The Heparan Sulfate Proteoglycan Perlecan Regulates Axonal and Synaptic Stability	<b>William Crossan Howland III</b> Thesis in the field of Chemistry submitted to the Department of Chemistry: Diagnosing Band-Mediated Electrochemical Half-Reaction Mechanisms and Identifying the Unique Features Thereof
<b>Raphaël Vincent Gayet</b> (September, 2022) Thesis in the field of Microbiology submitted to the Department of Biology: Developing Nucleic Acid-Based Sensors and Actuators	<b>Minyong Han</b> (September, 2022) Thesis in the field of Physics: Engineering Topology and Correlation in Epitaxial Thin Film Kagome Metals	<b>Jennifer Hu</b> Thesis in the field of Cognitive Science submitted to the Department of Brain and Cognitive Sciences: Neural Language Models and Human Linguistic Knowledge
<b>Natalie Clair Golota</b> Thesis in the field of Chemistry submitted to the Department of Chemistry: Advances in Sensitivity and Resolution of Solid State Nuclear Magnetic Resonance and Dynamic Nuclear Polarization	<b>Woonhee Han</b> (February, 2023) Thesis in the field of Physics, Statistics, and Data Science submitted to the Department of Physics: Studies of Edge Fluctuations of Negative Triangularity Plasma on TCV Using a New Gas Puff Imaging Diagnostic	<b>Miao Hu</b> (September, 2022) Thesis in the field of Physics: Precision Measurements of the Vector Boson Scattering Production and Searches for Charged Higgs Bosons at the Large Hadron Collider
<b>Christian Gomez</b> Thesis in the field of Chemistry submitted to the Department of Chemistry: Studies Directed Toward the Synthesis of Streptonigrin	<b>Michael Trier Liu Happ</b> Thesis in the field of Computational Neuroscience submitted to the Department of Brain and Cognitive Sciences: Predictive Novelty Detection in Songbird Auditory Cortex	

<b>Sofia Hu</b> (September, 2022) Thesis in the field of Biology: Transcription Factor Antagonism Regulates Heterogeneity in Embryonic Stem Cell States	<b>Alexander Elliot Kissinger Kaplan</b> Thesis in the field of Chemistry submitted to the Department of Chemistry: Coherence, Dephasing, and Quantum Interference in Colloidal Perovskite Nanocrystals	<b>Leo Kozachkov</b> (February, 2023) Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: Achieving Stable and Brain-Like Dynamics in Neural Circuits via Contraction Analysis
<b>Jingcheng Huang</b> (September, 2022) Thesis in the field of Chemistry submitted to the Department of Chemistry: Planetary Science Meets Chemistry: Studying Potential Biosignature Gases in Terrestrial Exoplanet Atmospheres	<b>Meghann Rebecca Kasal</b> Thesis in the field of Biochemistry submitted to the Department of Biology: Lon Degrades Stable Substrates Slowly but with Enhanced Processivity, Redefining the Attributes of a Successful AAA+ Protease	<b>Luis Kumanduri</b> Thesis in the field of Mathematics: Homotopically Nontrivial Area Contracting Maps
<b>Yiwen Huang</b> (February, 2023) Thesis in the field of Physics, Statistics, and Data Science submitted to the Department of Physics: Systematic and Statistical Uncertainties in the Characterization of Gravitational-Wave Sources	<b>Changhae Andrew Kim</b> (September, 2022) Thesis in the field of Chemistry submitted to the Department of Chemistry: I. Kinetic Modeling of Surface Reactions II. Computational Design of Organic Semiconductors	<b>Ethan Lake</b> Thesis in the field of Physics: Many- Body Physics of Kinetically Constrained Systems
<b>Keith Edward Laurence Husted</b> (February, 2023) Thesis in the field of Chemistry submitted to the Department of Chemistry: Design and Synthesis of Polymer Networks and Branched Polymers for Triggered Deconstruction and Self-Assembly	<b>Jungsoo Kim</b> Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: The Flexible Mind of a Worm: The Atlas of Brain-Wide Representations of Behavior in <i>C. elegans</i>	<b>Daniel William Laorenza</b> Thesis in the field of Chemistry submitted to the Department of Chemistry: Molecular Color Centers
<b>Anna Ivanova</b> (September, 2022) Thesis in the field of Cognitive Science submitted to the Department of Brain and Cognitive Sciences: The Role of Language in Broader Human Cognition: Evidence from Neuroscience	<b>Younhun Kim</b> (February, 2023) Thesis in the field of Mathematics: Algorithms for Reconstructing Biological History from Genomic Data	<b>Nhat Minh Le</b> (September, 2022) Thesis in the field of Neuroscience and Statistics submitted to the Department of Brain and Cognitive Sciences: Behavioral Strategies and Neural Mechanisms for Dynamic Foraging
<b>Nima Jaberl-Lashkari</b> Thesis in the field of Biology: Low Complexity Regions in Biological Matter: Sequences, Higher-Order Assembly, and Evolution	<b>James Levi Knipper</b> Thesis in the field of Chemistry submitted to the Department of Chemistry: Development of Stereoselective Hydrofunctionalization Reactions Enabled by Dual Copper (I) Hydride and Palladium Catalysis	<b>Byron Lee</b> (February, 2023) Thesis in the field of Biology: A Unified View of Protein Low-Complexity Regions (LCRS) across Species
<b>Onyu Jung</b> (September, 2022) Thesis in the field of Chemistry submitted to the Department of Chemistry: The Role of Surface Coverage of Reaction Intermediates in Heterogeneous Electrocatalysis	<b>Matthieu Kohl</b> (February, 2023) Thesis in the field of Atmospheric Science submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Moist Macroturbulence and Baroclinic Instability of the Midlatitude Atmosphere	<b>Choongman Lee</b> (February, 2023) Thesis in the field of Physics: Targeting and Manipulating Endogenous Transcriptional Condensates
<b>Nicholas William Kamp</b> Thesis in the field of Physics: Experimental and Phenomenological Investigations of the MiniBooNE Anomaly	<b>Sergei Korotkikh</b> Thesis in the field of Mathematics: New Degrees of Freedom in Integrable Models with q-Hahn Weights and Their Applications to Symmetric Functions and Probability	<b>Eugene Li Qun Lee</b> (February, 2023) Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: Temporal Pattern Processing by the Nematode <i>Caenorhabditis elegans</i>
		<b>Hyunseok Lee</b> (February, 2023) Thesis in the field of Physics: Emergent Behaviors in Microbial Communities

**Michael Jinsuk Lee**

(September, 2022)

Thesis in the field of Cognitive Science submitted to the Department of Brain and Cognitive Sciences: Rapid Human Learning via Low-Dimensional Perceptual Space

**Sangbaek Lee**

(September, 2022)

Thesis in the field of Physics: Measurement of the Deeply Virtual Compton Scattering Cross Section from the Proton at 10.6 GeV Using the CLAS12 Detector

**Yi Ning Leow**

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**Calvin Leung**

Thesis in the field of Physics: Localization and Lensing of Fast Radio Bursts Using CHIME/FRB and its VLBI Outriggers

**Abraham Lewis Levitan**

Thesis in the field of Physics: Studying Electronic Textures with Coherent Lensless Imaging

**Talya Sophia Levitz**

(February, 2023)

Thesis in the field of Biochemistry submitted to the Department of Biology: A Biochemical Study of the Neisseria Gonorrhoea Ribonucleotide Reductase

**Andrew James Lew**

(February, 2023)

Thesis in the field of Chemistry submitted to the Department of Chemistry: Elucidating Structure-Property Relationships for Targeted Materials Mechanical Design

**Junang Li**

(September, 2022)

Thesis in the field of Physics, Statistics, and Data Science submitted to the Department of Physics: Thermodynamics of Biological Active Matter

**Zeyang Li**

Thesis in the field of Physics: Exploring Novel Quantum Physics Using Ytterbium-171 in An Optical Cavity

**Andrew John Licini**

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**Grace Yun Liu**

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**Jinghui Liu**

(September, 2022)

Thesis in the field of Physics: Topology, Symmetry, and Mechanics: Deciphering and Controlling Information Flows in a Living Cell

**Chun Hong Lo**

(September, 2022)

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**Peter Yucheng Lu**

(September, 2022)

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**Shaoxiong Luo**

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**Victoria Maria Marando**

Thesis in the field of Chemistry submitted to the Department of Chemistry: Chemical Biology Tools to Study Bacterial Cell Surface Glycans

**Craig Robert Martin**

Thesis in the field of Geology submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Tectonostratigraphy of the Shyok Suture Zone in Ladakh, NW India.

**Nicholas Freeman Mehrle**

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**Enrique Mendez**

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**Angel Mojarrro**

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**Daniel Patrick Montgomery**

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Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: Dissecting the Cortical Circuitry Underlying Stimulus-Selective Response Plasticity

**Mitchell Murdock**

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**Oron Y. Propst**

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**Sarah Leah Schwartz**

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**Kasturi Sanjiv Shah**

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(February, 2023)

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**Ethan William Sussman**

Thesis in the field of Mathematics: Scattering at Threshold in Massive Wave Propagation and Ionization

**Graeme D. Sutcliffe**

(February, 2023)

Thesis in the field of Physics: Experimental Studies of Magnetic Field Generation and Saturation Mechanisms in Laser-Driven Plasmas

**Sebastian Robles Swanson**

Thesis in the field of Computational and Systems Biology submitted to the Department of Biology: Computational Methods for the Structure-Based Design of Protein Binding Peptides

**James Christopher Taggart**

(September, 2022)

Thesis in the field of Molecular Biology submitted to the Department of Biology: Defining the Precision and Sequence Determinants of Protein Synthesis Rates

**James Hope Tao**

Thesis in the field of Mathematics: Double Affine Galleries

**Henry Khoa Tran**

(September, 2022)

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**Francesca Anatilde Vaccaro**

Thesis in the field of Chemistry submitted to the Department of Chemistry: Structural Investigations of Adenosylcobalamin-Dependent Enzyme Maturation

**Eeshit Dhaval Vaishnav**

(September, 2022)

Thesis in the field of Genetics submitted to the Department of Biology: Evolution, Evolvability, Expression and Engineering

**Max Louis Valenstein**

(September, 2022)

Thesis in the field of Biochemistry submitted to the Department of Biology: Integration of Amino Acid Signals by the mTORC1 Pathway

**Dimitra Vardalaki**

Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: Functional and Ultrastructural Investigation of Mouse and Human Dendritic Spines

**Sheena L. S. Vasquez**

Thesis in the field of Biophysical Chemistry and Molecular Structure submitted to the Department of Biology: Biophysical Investigations of the Cytosolic Iron-Sulfur Cluster Assembly Late Acting Proteins

**Loyd Hoyt Waites III**

(February, 2023)

Thesis in the field of Physics: Design, Tools, and Applications of the IsoDAR Cyclotron

**Ruomeng Wan**

Thesis in the field of Chemistry submitted to the Department of Chemistry: Probing Exciton Dynamics in Metal-Organic Frameworks

**Joyce Wang**

Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: Investigating the Role of Thalamic Activity in Visual Cortical Plasticity

**Elizabeth Mari Ward**

(September, 2022)

Thesis in the field of Biology: Directed Evolution of Glycan-Binding Proteins

**Gwyneth Margaret Welch**

(September, 2022)

Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: Mechanisms of DNA Double Strand Break-Mediated Neurotoxicity in Neurodegenerative Disease

**Christopher Mark Whittle**

Thesis in the field of Physics: Quantum Optics and Mechanics in Gravitational-Wave Detectors

**Julia Wilcots**

(September, 2022)

Thesis in the field of Geology submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Dolomite as a Paleoenvironmental Archive

**Cedric Chinua Wilson**

(February, 2023)

Thesis in the field of Physics: Geometric Squeezing of a Degenerate Fermi Gas

**Jessica Xu**

(September, 2022)

Thesis in the field of Chemistry submitted to the Department of Chemistry: Pd-Catalyzed Cross-Coupling, High Throughput Experimentation, and Machine Learning

**Sophia Ye Xu**

(February, 2023)

Thesis in the field of Biochemistry submitted to the Department of Biology: A Natural Product-Guided Exploration of Mitochondrial Aldehyde Dehydrogenase

**Xiyun Ye**

Thesis in the field of Chemistry submitted to the Department of Chemistry: Affinity Maturation of Peptides to Bind the Protein-Protein Interface

**Cagin Yunus**

Thesis in the field of Physics, Statistics, and Data Science submitted to the Department of Physics: Monte Carlo Sampling of Lattice Field Theories

**Maria Zagorulya**

(February, 2023)  
Thesis in the field of Immunology submitted to the Department of Biology: Dendritic Cell Dysfunction Restrains Cytotoxic T Cell Responses against Cancer

**Cristian Zanoci**

Thesis in the field of Physics: Quantum Phase Transitions and Non-Equilibrium Dynamics in Many-Body Systems

**Juanye Zhang**

(September, 2022)  
Thesis in the field of Chemistry submitted to the Department of Chemistry: Surface Modifications of Iron Oxide Nanoparticles for Magnetic Imaging and Diagnosis

**Lingxian Zhang**

Thesis in the field of Mathematics: Application of High-Low Method to Distance Problems

**Yichi Zhang**

(September, 2022)  
Thesis in the field of Mathematics: Information-Theoretic Constraints on Particle Systems

**Zhiyu Zhang**

(September, 2022)  
Thesis in the field of Mathematics: Arithmetic Transfers, Modularity of Arithmetic Theta Series, and Geometry of Local-Global Shimura Varieties at Parahoric Levels

**Weishun Zhong**

Thesis in the field of Physics: Non Equilibrium Physics: From Spin Glasses to Machine and Neural Learning

**David Wei Zhou**

(September, 2022)  
Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: Alpha Thalamocortical Networks during Propofol General Anesthesia and Disorders of Consciousness

**Jinxiang Zhu**

(February, 2023)  
Thesis in the field of Physics: Data-Driven Study of Major Disruption Prediction and Plasma Instabilities across Multiple Tokamaks

**Junbo Zhu**

Thesis in the field of Physics: Magnetoresistance and Thermoelectricity in Low Dimensional Semi-metallic System

## AWARDED JOINTLY WITH THE WOODS HOLE OCEANOGRAPHIC INSTITUTION, DOCTORAL

### **Doctor of Philosophy**

#### **Benjamin James Ayton**

(September, 2022)

Thesis in the field of Autonomous Systems submitted to the Department of Aeronautics and Astronautics: Query-Driven Adaptive Sampling

#### **Cynthia Carroll Becker**

Thesis in the field of Biological Oceanography submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Examining Coral Reef Ecosystem Dynamics Using Microorganisms and Metabolites

#### **Tong Bo**

Thesis in the field of Civil and Environmental and Oceanographic Engineering submitted to the Department of Civil and Environmental Engineering: Impacts of Channel Curvature on Drag, Mixing, and Stratification in Estuaries

#### **Rebecca Jane Chmiel**

(February, 2023)

Thesis in the field of Chemical Oceanography submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Distributions and Perturbations of the Marine Dissolved Cobalt Cycle in a Changing Ocean

#### **Fiona Clerc**

(February, 2023)

Thesis in the field of Geophysics submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Insights from Geodynamic Models into Ice Flow, Mantle Magmatism, and their Interactions

#### **Emmanuel Avila Codillo**

(February, 2023)

Thesis in the field of Geochemistry submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Mass Transfer and Chemical Interactions in Subduction Zones

#### **Beckett Casper Colson**

(February, 2023)

Thesis in the field of Mechanical and Oceanographic Engineering submitted to the Department of Mechanical Engineering: Developing *In Situ* Instrumentation to Monitor Anthropogenic Change

#### **Kevin Joseph Doherty**

(February, 2023)

Thesis in the field of Autonomous Systems submitted to the Department of Aeronautics and Astronautics: Lifelong, Learning-Augmented Robot Navigation

#### **Lauren Nichole Dykman**

(February, 2023)

Thesis in the field of Biological Oceanography submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Marine Parasites in Island-Like Disturbed Habitats

#### **Genevieve Elaine Flasphohler**

(September, 2022)

Thesis in the field of Electrical Engineering and Computer Science: Balancing Exploration and Exploitation: Task-Targeted Exploration for Scientific Decision-Making

#### **Adrian Mikhail Palaci Garcia**

(September, 2022)

Thesis in the field of Civil and Environmental and Oceanographic Engineering submitted to the Department of Civil and Environmental Engineering: Mechanisms of Tidal Dispersion in a Salt Marsh Estuary

#### **Kalina Cozette Grabb**

(September, 2022)

Thesis in the field of Chemical Oceanography submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Evaluating the Role of Reactive Oxygen Species (ROS) Cycling within Coastal Ecosystems in Relation to Organism Health

#### **Benjamin Nash Granzow**

(February, 2023)

Thesis in the field of Chemical Oceanography submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Chemical Controls on the Cycling and Reactivity of Marine Dissolved Organic Matter

#### **Jing He**

Thesis in the field of Physical Oceanography submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Modeling Ocean Transport and Its Biogeochemical Impacts at Global, Regional, and Sub-Meso Scales

#### **Andrew Joseph Hirzel**

(February, 2023)

Thesis in the field of Biological Oceanography submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Biological and Physical Processes at the Middle Atlantic Bight Shelf-Break Front

#### **Ellen Lalk**

(February, 2023)

Thesis in the field of Geochemistry submitted to the Department of Earth, Atmospheric, and Planetary Sciences: The Biogeochemistry of Methane Isotopologues in Marine and Lacustrine Sediments

#### **Jingxuan Li**

Thesis in the field of Chemical Oceanography submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Siderophore Cycling in the North Pacific Subtropical Gyre

#### **Lei Ma**

(September, 2022)

Thesis in the field of Biological Oceanography submitted to the Department of Earth, Atmospheric, and Planetary Sciences: The Many Facets of Marine Microbial Symbiosis

#### **Rose Palermo**

(September, 2022)

Thesis in the field of Marine Geology submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Coastline Evolution on Earth and Titan

**Victoria Lynn Preston**

(February, 2023)

Thesis in the field of Autonomous  
Systems submitted to the Department of  
Aeronautics and Astronautics: Perceive,  
Predict, and Plan: Robotic Expeditionary  
Science in Oceanic Spatiotemporal Fields

## MILITARY COMMISSIONS

### United States Air Force

*Second Lieutenant*  
Catherine Johnson  
Matthew McGillick  
John Pendergrast  
Kaira Samuel  
Jupneet Singh  
Olivia Tobin  
Brendan Vaughan

### United States Army

*Second Lieutenant*  
Aden Rothmeyer  
Eric Wooten

### United States Marine Corps

*Second Lieutenant*  
Andrew Cummings

### United States Navy

*Ensign*  
Frederick Humm  
Albert Kwon  
Juliet Liao  
Joshua Malone  
Andrew Manwaring  
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### United States Space Force

*Second Lieutenant*  
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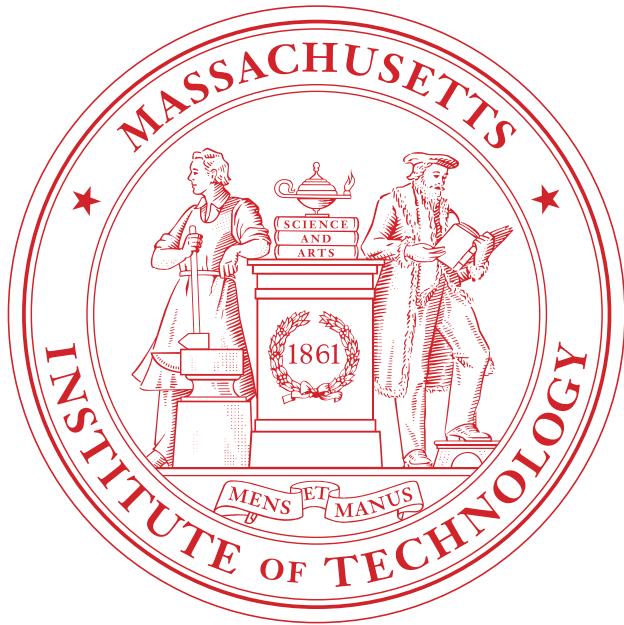
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