



MIT  
COMMENCEMENT

2022

**MIT Commencement**  
Honoring the graduates of 2022

Friday, May 27, 2022



Massachusetts  
Institute of  
Technology



## WELCOME

As we celebrate the graduation of MIT's Class of 2022, we could not be happier to join their families and friends in honoring their accomplishments.

The Class of 2022 will join a global family of more than 143,000 MIT alumni around the world. Across time and across distance, our community is connected by fundamental values and shared ideals: Excellence, integrity, curiosity, openness and a passion for solving tough problems. Together we possess uncommon strengths—and the drive and aspiration to apply them in countless ways to serve humanity.

As we congratulate our new graduates, we dream of the wiser and kinder world they can help create.

A handwritten signature in black ink that reads "L. Rafael Reif".

L. Rafael Reif  
President

Photos  
Cover and above: Christopher Harting  
Back cover: Andy Ryan

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## SCHOOL OF ARCHITECTURE AND PLANNING

### Bachelor of Science in Architecture

Course IV

*Department of Architecture*

Ai Bui

Seif N. Eses

Minor in Computer Science

Nina Huttemann

Ji Min Lee

Minor in Brain and Cognitive Sciences  
Minor in Women's and Gender Studies

Stephanie Li

Erica C. Liu

Minor in Computer Science

Huanshuo Rao

Also with a Major in Course VI-2

Elliott Samantha Lee Seaman

Also with a Major in Course XVI

Nicole Alexandra Teichner

Minor in Environment and Sustainability

### Bachelor of Science in Art and Design

Course IV-B

*Department of Architecture*

Hamilton J. Forsythe

(February, 2022)

Ibuki Iwasaki

Also with a Major in Course VI-9

James Quash Stevens IV

(February, 2022)

### Bachelor of Science in Planning

Course XI

*Department of Urban Studies and Planning*

Alexander J. Boccon-Gibod

Also with a Major in Course IV-B

Jennifer Jeongwon Choi

Also with a Major in Course XVIII

Alena J. Culbertson

Minor in Mathematics

Moctar Ndjido Fall

Jennifer Fox

Also with a Major in Course XIV-1  
(February, 2022)

Emily Levenson

Minor in Writing

Cristian Rios

Alia Husain Rizvi

Also with a Major in Comparative Media  
Studies

Amelia C. Seabold

Minor in Biology

### 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*

Luis Eduardo Becerra Solis

Tanner Lucine Bonner

Grace A. Bryant

(February, 2022)

Yu Jing Chen

Ana Cristina Fiallo Van Eenenaam

Minor in Energy Studies

Sarah P. Lohmar

Minor in Energy Studies

## SCHOOL OF ENGINEERING

<p><b>Bachelor of Science in Engineering as recommended by the Department of Civil and Environmental Engineering</b> Course 1-ENG <i>Department of Civil and Environmental Engineering</i></p>	<p><b>Athikom Wanichkul</b> Also with a Major in Course VI-2</p>	<p><b>Annemarie Dapoz</b></p>
<p><b>Stephanie Michel Baez</b> Minor in Architecture</p>	<p><b>Gabriela Alvarez Perez</b> Minor in Environment and Sustainability Minor in Energy Studies</p>	<p><b>Anita Dey Barsukova</b> Minor in Computer Science</p>
<p><b>Meriah Jolie Gannon</b> Minor in Urban Studies and Planning</p>	<p><b>Pablo Francisco Ampudia</b> (February, 2022)</p>	<p><b>Makita F. Erni</b> Minor in Political Science</p>
<p><b>Nebyu Samuel Haile</b> Minor in Architecture</p>	<p><b>Eva W. Anderson</b> Minor in Energy Studies (February, 2022)</p>	<p><b>Emily Genevriere</b> Minor in Design</p>
<p><b>Marcin Hajduczek</b> Also with a Major in Course XV-1</p>	<p><b>Cathleen Arase</b></p>	<p><b>Averitt A. Johns</b> Minor in Economics</p>
<p><b>Jade Kuuleialoha Ishii</b></p>	<p><b>Mariana Sofia Avila</b> Minor in Design (February, 2022)</p>	<p><b>Allison F. King</b> Minor in Design</p>
<p><b>Anna Kea Landler</b> Also with a Major in Course VI-3</p>	<p><b>Nathan Lloyd Basinger</b> Minor in Design</p>	<p><b>Sarah M. Lam</b></p>
<p><b>Margaret R. Libby</b> Also with a Major in Course XXI-L Minor in Biology</p>	<p><b>Amber Sui Bick</b></p>	<p><b>Nathaniel J. Lee</b> (February, 2022)</p>
<p><b>Diego R. Monroy</b> Also with a Major in Course XIV-1 Minor in Computer Science</p>	<p><b>Joseph E. Bonavia</b></p>	<p><b>Yehoon Lee</b> Minor in Design</p>
<p><b>Isabel A. Munoz</b> Also with a Major in Course XIV-1</p>	<p><b>Stefan Borjan</b></p>	<p><b>Sofia Eva Leon</b> Minor in Economics Minor in Finance</p>
<p><b>Natalie A. Northrup</b> Also with a Major in Course XIV-1 Minor in Environment and Sustainability</p>	<p><b>Everett M. Brandyberry</b> Minor in Computer Science</p>	<p><b>Ethan A. Lietch</b> Minor in Energy Studies</p>
<p><b>Rovi Chung Porter</b> Minor in Economics Minor in Energy Studies (See also M.Eng., Course I-P)</p>	<p><b>Ruben Castro Ornelas</b></p>	<p><b>Lydia Gaulding Light</b> (February, 2022)</p>
<p><b>Selma Sharaf</b> Minor in Management</p>	<p><b>Ceylan Ceylan</b> Minor in Economics</p>	<p><b>Alejandro Moises Martinez</b></p>
<p><b>Carene T. Umubyeyi</b> Minor in Design</p>	<p><b>Karen Chen</b> Minor in Theater Arts Minor in Design</p>	<p><b>Kai Adrianus Masterson</b> (February, 2022)</p>
	<p><b>Eric Anthony Cora</b></p>	<p><b>Thaddaeus Robert Megchelsen</b> Minor in Economics</p>
	<p><b>Greyson C. D'Aloisio</b> Minor in Computer Science</p>	<p><b>Robert Cody Moose</b></p>
		<p><b>Ryan D. Nall</b></p>
		<p><b>Jorge A. Nin</b></p>
		<p><b>Hyeonji Oh</b></p>

Mojolaoluwa Olatunji Oke Minor in Japanese	Matthew Charles Stringfellow Minor in Music (February, 2022)	Eli S. Brooks Minor in Environment and Sustainability		
Bryan T. Padilla Minor in Public Policy	Erik M. Thompson Minor in Russian and Eurasian Studies	Miranda Sydney Carson Minor in Brain and Cognitive Sciences (February, 2022)		
Lynda Victoria Palacios	Meghana Vemulapalli Minor in Urban Studies and Planning	Darius Jun Loung Chan Minor in Entrepreneurship & Innovation		
Dominic A. Panzino Minor in Management Minor in Computer Science	Claire B. Wichman Minor in Physics	Patricia Jocelyn Chan Minor in Energy Studies		
Lillian Claire Papalia (February, 2022)	Peter C. Williams	Anya Sophia Chase		
John Ramhorst Paris Also with a Major in Course VI-2	Robert P. Williamson (February, 2022)	Julia Besecke Chatterjee		
Kolade Alexander Paul-Ajuwape	Lila N. Wine Minor in Design	Samantha Cheung Minor in Women's and Gender Studies		
Pedro Pavao Neto	Minna Z. Wyttenbach	Sophia Cheung Minor in Japanese		
Leah K. Pettit	<b>Bachelor of Science in <u>Engineering as recommended by the Department of Mechanical Engineering</u> Course II-A <i>Department of Mechanical Engineering</i></b>			
Joseph J. Pierre	Isabella Adu	Isabella Chiurillo		
Lauren Elizabeth Platt Also with a Major in Course XXI-L	Daniel Alel (February, 2022)	Luis Jose Franco		
Collin B. Renae Minor in Economics Minor in Mathematics (February, 2022)	Omoruyi E. Atekha Minor in Design	Simon M. Ganeles Minor in Architecture		
Zachary S. Rolfnness	Isabel R. Barnet Minor in Literature	Adrian F. Garza		
Roberto R. Sarabia Minor in Management	Christian Alexander Belser Also with a Major in Course VI-3	Danielle Alexa Geathers		
Emily R. Satterfield Minor in Business Analytics	Kaleb Arthur Blake	Jesse C. George-Akpenyi Also with a Major in Course VI-1		
Rebecca Louise Saulnier Sholler Minor in Design	Nathaniel James Chi Sung Boerner Minor in Music	Stacy Chidera Godfrey-Igwe Also with a Major in Course XXI		
Sarah Jean Simmons-Hoffmann Minor in Design	Caroline G. Boone (February, 2022)	Jeffrey R. Hesslink		
Talia Rose Spitz	<b>Stephanie Thein Hoo</b>			
Natasha Lia Stamler Also with a Major in Course XI	<b>Shan Shan Huang</b>			
<b>Joel A. Hutchison</b> Minor in Music				
<b>Samuel Ingersoll</b> Also with a Major in Course VI-2 Minor in Writing				
<b>Salma Islam</b> Minor in Design				

**Faith E. Jones**  
Minor in Design

**Hana Khalil**  
Minor in Applied International Studies

**Emily Jane Kiley**  
Minor in Design

**Sophia Li**  
Minor in Management

**Bethany Paige Lowenkamp**

**Kevin A. Lu**

**Naomi P. Lutz**  
Minor in Environment and Sustainability  
Minor in Energy Studies

**Jaime A. Martin**

**Isaac Aguilera Martinez**

**Michael Mazumder**  
Also with a Major in Course XV-1

**Jeremy Alexander McCulloch**

**Olivia Blanche McGrath**  
Minor in Environment and Sustainability

**Claire Davis Melvin**

**Naomi Michael**

**Janice Christine Moya**

**Maya Katherine Nielan**  
Also with a Major in Course VI-2  
(February, 2022)

**David Oluwabamidele Ologun**  
Also with a Major in Course VI-2

**Mario A. Peraza**

**Inés Elena Pinilla**

**Allison N. Pinto**  
Minor in Management  
(February, 2022)

**Adam W. Potter**  
Minor in Energy Studies

**Emily Gita Christa Rabinovitsj**

**Jason Isaiah Ramirez**

**Julianna Rodriguez**

**Catalina Romero**  
Minor in Environment and Sustainability

**Laura M. Rosado**  
Also with a Major in Course XXI-W

**Jonah M. Scott**

**Aashini S. Shah**  
Also with a Major in Course VI-1

**Andrew S. Shin**  
Minor in Economics  
Minor in Computer Science

**Margaret E. Shutts**

**Rebecca Yeh-Ching Slater**  
Minor in Design

**Jessica E. Sonner**

**Brendt Dameon Stephens, Jr.**  
Minor in Environment and Sustainability

**Philip William Tegmark**  
(February, 2022)

**Ashley Teng**

**Quentin I. Thernize**  
Minor in Computer Science

**Janice Tjan**  
Also with a Major in Course IV-B

**Wendy L. Trattner**  
(February, 2022)

**Alexander Tsao**  
Minor in Design

**Prajwal Tumkur Mahesh**  
Minor in Computer Science  
Minor in Design

**Gavin Raymond Vandenberg**  
Also with a Major in Course XIV-1

**Logan William Vawter**  
Minor in Energy Studies

**Kiara Isabel Wahnschafft**  
Also with a Major in Course XIV-1  
(February, 2022)

**Julia A. Wyatt**  
Minor in History

**Gregory Xie**  
Also with a Major in Course VI-2

**Leslie Yan**  
Also with a Major in Course IV-B

**Lisa Yan**  
Minor in Management  
(February, 2022)

**Emily M. Yuan**  
Minor in Management

**Zhijian Zhou**  
(February, 2022)

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

**Jacqueline M. Ahrens**  
Minor in Management

**Shubhangi Ballal**

**Alana Satsuki Chandler**  
Minor in Polymers and Soft Matter  
Minor in Women's and Gender Studies

**Udochukwu D. Eze**  
Minor in Physics

**Gabriela Juliana Goldsmith**

**Christopher M. Kiel**

**Sophia Michelle Mittman**

**Aditi Saayujya**

**Kiera Yeechen Tai**  
Minor in Computer Science

**Spencer J. Toll**  
(February, 2022)

**Kierstin P. Torres**  
Minor in Music

**Mollie M. Wilkinson**

**Jasmine Yang Yang**  
Minor in Earth, Atmospheric, and Planetary Sciences

**Bachelor of Science as recommended by the Department of Materials Science and Engineering**  
Course III-A  
*Department of Materials Science and Engineering*

**Joyce Miao An**

**Jessica Elizabeth Arbuckle**

**Jeremy M. Dudo**

**Sophia Y. Fang**  
Minor in Biology

**Flor E. Garza Romero**  
(February, 2022)

**Danielle Rose Herman**  
(February, 2022)

**Lucy Grace Kitch-Peck**  
Minor in Energy Studies

**Heidi Leya Li**  
Minor in Public Policy  
Minor in Energy Studies

**Kyle A. Markland**  
Minor in German

**Neosha Gupta Narayanan**

**Thomas M. Sierra**  
Minor in Business Analytics

**Isaac Azael Toscano Mina**  
Also with a Major in Course XV-1

**Kathryn A. Tso**  
Also with a Major in Course XXI-H

**Paige K. Vincent**  
Minor in Energy Studies

**Lori Insun Won**

**Elliott S. Yarwood**

**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*

**Julia Marshall Arnold**  
Minor in Political Science  
(See also M.Eng., Course VI-P)

**Kellie Elizabeth Everett**

**Roberto E. Garcia**

**Ishaan Govindarajan**

**Sidne V. Gregory**  
Minor in Spanish

**Bernardo Hasbach Covian**

**Petra E. Hernandez**  
(February, 2022)

**Jonathan Maiara**

**Jordan Christopher McDermott**

**Fischer Jay Moseley**  
Also with a Major in Course VIII

**Suparnamaaya Prasad**  
Also with a Major in Course XXI-W  
Minor in Mechanical Engineering

**Jenessa M. Rodriguez**  
(February, 2022)

**Brian Wang**

**Reagan Pauline Zimmerman**  
Also with a Major in Course XVII

**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*

**So Hee Ahn**

**Bradley D. Albright**

**Yaseen S. Alkhafaji**

**Kazi Alom**

**Henry Nils Andersen**

**Rachel Anderson**

**Antonio Berrones**

**Kade M. Bose**

**Jasmin Charifa Bouzarouata**

**Paul G. Calvetti, Jr.**  
Minor in Mathematics

**Michael R. Cantow**  
Minor in Mathematics

**Valerie Ku Chen**  
Minor in Music

**William Chen**  
(February, 2022)

**Melissa Chhaunkar**

**Tamique de Brito**

**Mingfei Phil Duan**  
Minor in Mathematics

**Tareq El Dandachi**  
Also with a Major in Course II-A

**Julian Christopher Espada**  
Minor in Mathematics

**Marc Andrew Felix**

**Matthew R. Feng**

**Cassidy M. Fialkiewicz**

**Aaron T. Fleischer**

**Alisha Fong**

**Reed A. Foster**

**Albert Garcia**

**Ethan Z. Garza**

**Jamie Geng**

**Arlene Ezinne Godfreey-Igwe**  
Minor in African and African Diaspora Studies

**Avichal Goel**  
Also with a Major in Course XVIII

**Adina H. Golden**  
Minor in German

**Miguel Gomez-Garcia**

**Richard L. Gong**  
Minor in Physics

**Rolando Alfonso Gonzalez**

**Luka Govedič**  
Minor in Physics  
Minor in Music

**Veronica M. Grant**  
Minor in Brain and Cognitive Sciences

**Colin T. Greybosh**

**Wilson Guo**

**Kelly He**  
Minor in Mathematics

**Tommy S. Heng**

**Adeline F. Hillier**  
(See also M.Eng., Course VI-P)

**Kelly P. Ho**

**Julius-Bao Gia Hoang**  
Minor in Music  
(February, 2022)

**Amanda Elisabeth Horne**  
(See also M.Eng., Course VI-P)

**Emily Ming-Lee Huang**  
Also with a Major in Course XVII

**Spencer David Hylen**  
Also with a Major in Course XIV-2  
Minor in Business Analytics  
(February, 2022)

**William W. Jack**

**Holly M. Jackson**  
Minor in Applied International Studies

**Lenna Sakura Kanehara**  
Also with a Major in Course VIII

**Sohini Kar**  
Minor in Brain and Cognitive Sciences

**Sathwik V. Karnik**  
Also with a Major in Course XVIII

**Benjamin Burton Kettle**  
Minor in Urban Studies and Planning

**Meesue Kim**  
Minor in Design

**Daniel A. Klahn**

**Gokul R. Kolady**  
Minor in Music

**Abby Arleen Lambert**  
(February, 2022)

**David B. Li**  
Minor in Mechanical Engineering  
Minor in Economics

**Xin Yu Lin**  
(See also M.Eng., Course VI-P)

**Donald Dee Liu**

**Bryan López**

**Kerri Lu**  
Also with a Major in Course XVIII  
Minor in Physics  
Minor in Economics  
(See also M.Eng., Course VI-P)

**Chun Ming J Ma**  
Minor in Brain and Cognitive Sciences  
Minor in Mathematics

**Tim Yuan Magoun**

**Yashaswini I. Makaram**  
Minor in History  
(February, 2022)

**Jacob T. McGuire**  
Minor in Mechanical Engineering  
(See also M.Eng., Course VI-P)

**Aditya Mehrotra**  
Minor in Mechanical Engineering

**Ian J. Merrick**

**Kelsey N. Merrill**  
Minor in Economics

**Devin F. Murphy**

**Pranav M. Murugan**  
Also with a Major in Course VIII  
Minor in Biology

**Anthony Dakota Nardomarino**

**Ahmad Hussein Negm**

**My Uyen Tran Nguyen**

**Carol Pan**  
Minor in Chinese

**Meenal Parakh**  
Also with a Major in Course XVIII

**Nitya Parthasarathy**

**Syamantak Payra**  
Minor in Entrepreneurship & Innovation  
Minor in Public Policy

<b>Joshua J. Piel</b> (February, 2022) (See also M.Eng., Course VI-P)	<b>Ria V. Sonecha</b> Minor in Mechanical Engineering	<b>Bachelor of Science in Computer Science and Engineering</b> Course VI-3 <i>Department of Electrical Engineering and Computer Science in conjunction with the Schwarzman College of Computing</i>
<b>Isabelle A. Quaye</b> Minor in Economics	<b>Natalia G. Suarez</b> Also with a Major in Course XV-1	
<b>Muhammad S. Rahman</b> Minor in Mathematics	<b>Hillary Tapiwa Tamirepi</b>	
<b>Saad Nafim Rahman</b> (February, 2022)	<b>Krittamate Tiankanon</b>	
<b>Sneha Ramachandran</b>	<b>Sabina Tontici</b> Minor in Mathematics	<b>Adit Abraham</b> (February, 2022)
<b>Nicholas R. Ramirez</b> Minor in Music	<b>Tiffany Trinh</b> Minor in Comparative Media Studies	<b>Alan Abreu</b>
<b>Sanjna Ravichandar</b>	<b>Bréjah M. Upton</b>	<b>Ariana Ines Adames</b>
<b>Diego A. Raygoza-Castanos</b> Also with a Major in Course XVIII Minor in Philosophy Minor in Statistics and Data Science	<b>Sreya Vangara</b> Also with a Major in Course II-A	<b>Ikechukwu Daniel Adebi</b>
<b>Dana Rosenfarb</b> Minor in Mathematics (February, 2022)	<b>Vikram Varma</b> Minor in History	<b>Adedolapo Adedokun</b>
<b>Pedro Sales Rodriguez</b> Also with a Major in Course VIII	<b>Geoffrey Wang</b>	<b>Raúl A. Alcántara Castillo</b>
<b>Gustavo X. Santiago-Reyes</b> Minor in Theater Arts	<b>Jialan Wang</b> Minor in Linguistics	<b>Emilio Amaya</b>
<b>Hannah Savoldy</b> Also with a Major in Course XXI-M	<b>Margaret X. Wang</b> Minor in Mechanical Engineering	<b>Peter Amenewolde</b>
<b>Christian J. Scarlett</b> Minor in Music	<b>Daniel F. Wisdom</b> Minor in Mathematics	<b>Amir-Hizami S. Anuar</b>
<b>Gila Rachel Schein</b> (February, 2022)	<b>Carine Xinbo You</b> Also with a Major in Course XVIII	<b>Enrique Aviña, Jr.</b>
<b>Georgia Elizabeth Shay</b>	<b>Justin S. Yu</b>	<b>Arkadiusz Bałata</b>
<b>Peyton Douglas Shields</b>	<b>Brandon W. Yue</b>	<b>Abigail Rose Bancks</b>
<b>Sage Simhon</b>	<b>Jingjun Zeng</b>	<b>Gannon Octo Luke Barnett</b>
<b>Nailah Jonquil Smith</b> Also with a Major in Course XXI-W	<b>Lori Liu Zhang</b> (February, 2022)	<b>Reginald Davis Best, Jr.</b> Minor in Theater Arts
<b>Jackson C. Snowden</b>	<b>Sammy W. Zhang</b> (February, 2022)	<b>Ether Y. Bezugla</b> Minor in Earth, Atmospheric, and Planetary Sciences
		<b>Vivek A. Bhupatiraju</b> Minor in Mathematics
		<b>Christopher J. Blazes</b>
		<b>Elena Sheppard Boal</b> Minor in Spanish
		<b>Baptiste Bouvier</b>

<b>Terryne Diane Brunelle</b> (See also M.Eng., Course VI-P)	<b>Jahrid Juan-Pablo Clyne</b>	<b>Stephanie Fu</b> Also with a Major in Course XXI-M Minor in Mathematics
<b>Anna Grace Bryan</b> Also with a Major in Course XIV-2	<b>Spencer Compton</b> (See also M.Eng., Course VI-P)	<b>Jenny Leixin Gao</b> Also with a Major in Course XVIII
<b>Amarbold Byambajargal</b>	<b>John B. Cook</b> Minor in Brain and Cognitive Sciences	<b>Karen Gao</b>
<b>Matthew R. Byrd</b>	<b>Sebastian Andre Cordova</b> Also with a Major in Course XVIII	<b>Ana Raquel Garcia</b> Minor in Business Analytics
<b>Raul Campos</b>	<b>Christian Cruz Matias</b>	<b>Derek Jesus Garcia</b> Minor in Latin American and Latino Studies
<b>Jesus R. Cantu</b>	<b>Jacob R. Cucinello</b>	<b>Serafin Joseph Cwynar Garcia IV</b> (February, 2022)
<b>Shirley Q. Cao</b>	<b>Guangqi Cui</b> (February, 2022)	<b>Edward G. Gathuru</b> Minor in Mathematics
<b>Emily I. Caragay</b> Minor in Public Policy	<b>Tristan T. Culp</b> Minor in Finance	<b>Ricardo M. Gayle, Jr.</b>
<b>Angelica Castillejos</b>	<b>Howard DaCosta III</b>	<b>Shinjini Ghosh</b> Also with a Major in Course XXIV-2 Minor in Mathematics
<b>Sze Hoi Sophia Chan</b> Minor in Finance	<b>Haimoshri Das</b> Also with a Major in Course XVIII Minor in Economics Minor in Entrepreneurship & Innovation	<b>Michael Gilbert</b> Minor in Economics
<b>Ioannis Chatziveroglou</b> Minor in Mathematics	<b>Tyrone Davis III</b> Minor in Russian and Eurasian Studies	<b>Marlena C. Gomez</b>
<b>Brad Chavero-Correa</b> (February, 2022)	<b>Andrei R. Dumitrescu</b>	<b>Yulia Malka Gonik</b> Minor in Mathematics
<b>Jeffrey T. Chen</b> Minor in Mathematics	<b>Yun Shwe Eain</b> Also with a Major in Course XXI	<b>Luis J. Gonzalez</b> (February, 2022)
<b>Shiyu Chen</b> Also with a Major in Course XVIII Minor in Economics	<b>Gabrielle Edyt Ecanow</b>	<b>Garrett A. Gordon</b>
<b>Tiffany Tianyu Chen</b> Also with a Major in Course XXI-S	<b>Diego Escobedo</b>	<b>Pawan Goyal</b> Also with a Major in Course XIV-2
<b>Claire Cheng</b> Also with a Major in Course XXI-M	<b>Shushu Fang</b> Also with a Major in Course XVII Minor in Mathematics	<b>Peyton Steven Greve</b>
<b>Katherine Y. Cheng</b> Also with a Major in Course XVIII (See also M.Eng., Course VI-P)	<b>Noah M. Faro</b> Minor in Biology	<b>Luz Elena Grisales Gómez</b> Also with a Major in Course XVIII
<b>Itamar S. Chinn</b>	<b>Manuel Alejandro Favela</b>	<b>Alicia X. Guo</b> Minor in Mathematics Minor in Design
<b>Keenly S. Chuang</b>	<b>Winston S. Fee</b>	<b>Xinyi Guo</b> (February, 2022)
<b>Soomin Chun</b> Minor in Mathematics	<b>Violet Celeste Felt</b> (See also M.Eng., Course VI-P)	
<b>Andrew Day Churchill</b>	<b>Marco A. Fleming</b>	

Aayush Gupta	Zachary D. Johnson	Mario Leyva, Jr.
Raxel Gutierrez	Cooper R. Jones Minor in Mathematics	Amanda Li Also with a Major in Course XVIII
Shannon A. Hagmaier	Shulamit Hava Rothberg Jones Minor in Linguistics	Amber M. Li Minor in Mathematics
Dagmawi Samuel Haile	Luann C. Jung Minor in Statistics and Data Science (See also M.Eng., Course VI-P)	Andrea Yingjun Lin Minor in Mathematics (February, 2022)
Julian Shumirai Hamelberg Also with a Major in Course XXI-M	Akshaj Kadaveru Minor in Mathematics	Ashley Lin Also with a Major in Course XVIII
Mateo E. Hendricks-Hernandez	Ioannis Kaklamani Also with a Major in Course XVIII	Gloria Zhi-Xian Lin (February, 2022) (See also M.Eng., Course VI-P)
Isaak Hernandez	Patrick D. Kao (See also M.Eng., Course VI-P)	Caleb Andrew Littlejohn
Tyler E. Higgs	Hyunji Kim (See also M.Eng., Course VI-P)	Alex C. Liu Also with a Major in Course XVIII Minor in Chemistry
Daven W. Howard	Nathaniel Jongmin Kim Minor in Mathematics Minor in Statistics and Data Science	Emma J. Liu Minor in Economics Minor in Statistics and Data Science (See also M.Eng., Course VI-P)
Grace Wenzhen Ni Hu	Yo-whan Kim (See also M.Eng., Course VI-P)	Kevin Liu Minor in Mathematics
William Hu Minor in Music	Cole Thomas Kingston	Richard T. Liu
Tiffany Y. Huang Also with a Major in Course VIII	Nadia Noriko Koshima	Helen Lu Minor in Business Analytics
Raymond Minor Huffman	Shenal Santhush Kotuwewatta Also with a Major in Course XVIII Minor in Business Analytics	Mindren D. Lu Also with a Major in Course XX Minor in Linguistics (See also M.Eng., Course VI-P)
Hoang Ngoc Minh Huynh	Andrew S. Kreisher Bibiloni	William Luo
Peter Gyoomin Hwang (February, 2022)	Jay T. Lang	Lilian Luong
Chiho Im (February, 2022)	Pedro D. Lantigua	Aileen Ma
Elsa Mukene Itambo Minor in Mathematics	Joie Y. Le Minor in Brain and Cognitive Sciences Minor in Mathematics	Yunfei Ma
James Daniel Jackson	Joshua Lee Also with a Major in Course XVIII (February, 2022)	Niklas Mannhardt Also with a Major in Course XVIII
Lay Jain Also with a Major in Course XIV-2	Jungyeon Lee Also with a Major in Course XVIII Minor in Economics	Alexandra N. Marsh
Meagan R. Jens Minor in Business Analytics		
Sharon Jiang Minor in Mathematics		
Kathryn J. Jin		
Suzanna A. Jiwani		

Alexandra Martirosian (February, 2022)	Timothy O. Ogunfunmi	Sabrina Romero Arrazcaeta
Ian C. McJohn	Temiloluwa O. Omitoogun Minor in Theater Arts	Stuart A. Rucker
Nicholas Allen Medearis	Ishan Pakuwal Minor in Economics Minor in Statistics and Data Science	Mitchel P. Rydzynski Minor in Mathematics
Carolyn Mei	Jennifer R. Pan Also with a Major in Course XIV-1 Minor in Mathematics	Kyle A. Sandell Minor in Finance
Amelia A. Meles Minor in Chinese	Shreya L. Pandit Also with a Major in Course IX	Aman R. Sanger Also with a Major in Course XVIII
Sebastian K. Mendez (February, 2022)	Vishnu Sai Penubarthi	Pasapol Saowakon Minor in Economics Minor in Statistics and Data Science
Tamara Mitrovska	Jorge L. Pérez Minor in Biology	Nehemiah Zerayohannes Seblu
Abhishek Mohan (February, 2022)	Sergio Perez Minor in Music	Samuel Seseña
Enrique B. Montas Minor in Mathematics	Gregory G. Peterson Also with a Major in Comparative Media Studies	Andrew Y. Shao Also with a Major in Course XVIII
Alexander Paul Moreno (February, 2022)	Daniel P. Pillsbury (February, 2022)	Khaled K. A. Shehada
Julia Nicole Moseyko	Shirlyn Prabahar (February, 2022)	Jeffrey J. Shen Minor in Political Science
Rajiv Movva Minor in Biology Minor in Women's and Gender Studies	Abilash Prabhakaran	Michelle Cindy Shen
Veronica Muriga	Sonia Purohit	Nina X. Singh
Oluwatobi Risqat Mustapha	Laura Isabella Queipo Morales	Abraham Skandera
Umarbek Sheraliyevich Nasimov	Anushka Ray (February, 2022)	Carson J. Smith Minor in Political Science (See also M.Eng., Course VI-P)
Diogo Correia Netto Also with a Major in Course XIV-2	Isaac Charles Redlon	Mahmoud Sobier Also with a Major in Course XXIV-1
Gary Thanh Nguyẽn	Jordan S. Ren	Jesus A. Solis (February, 2022)
Kevin Q. Nguyen Minor in Japanese	Sol Estrella Rodríguez Garnica	Wilson Banks Spearman
Linh Tường Nguyẽn Minor in Spanish	Marina Olivia-Marie Rogers Minor in Design	Benjamin F. Spector Also with a Major in Course XVIII (See also M.Eng., Course VI-P)
Lena Q. Nguyen-Vo	Anthony C. Roman Also with a Major in Course XXI-M (See also M.Eng., Course VI-P)	Suraj S. Srinivasan Also with a Major in Course XVIII
Raveen Nzialani		
Cory Jakob O'Shea		

<b>Crystal B. Su</b> Also with a Major in Course XV-1 Minor in Economics	<b>Handong Wang</b> Also with a Major in Course VIII Minor in Mathematics	<b>Forest Yang</b>
<b>Chuyue Sun</b>	<b>Ivy A. Wang</b> Also with a Major in Course XVIII Minor in Design	<b>Janice Catherine Yang</b>
<b>Daniel D. Sun</b>	<b>Lilian Wang</b>	<b>Tanya Yang</b>
<b>Shobhita S. Sundaram</b> Also with a Major in Course XVIII	<b>Madeline Wang</b> Also with a Major in Course XVIII	<b>Yilinn Yang</b> Also with a Major in Course XV-2
<b>Viktoriya Tabunshchyk</b>	<b>Tony R. Ward</b> Minor in Business Analytics	<b>Rui Yao</b> Also with a Major in Course XVIII
<b>Kevin Tang</b> Minor in Mathematics	<b>Megan Jian Wei</b> Minor in Business Analytics	<b>Derek Jia-Wen Yen</b> Also with a Major in Course XXIV-2 Minor in Mathematics
<b>Britney Alda Ting</b>	<b>Anna E. Weinstein</b> Minor in Brain and Cognitive Sciences	<b>Richard A. York IV</b> Minor in Political Science
<b>Ritaank Tiwari</b> Also with a Major in Course XVIII	<b>Christian T. Williams</b>	<b>Joanne Yuan</b>
<b>Deborah Cheron Torres</b>	<b>Edmund D. Williams, Jr.</b>	<b>Ann Zhang</b>
<b>Moises Trejo, Jr.</b>	<b>Max Xavier Williamson</b> Minor in Public Policy	<b>Jerry Zhang</b> Minor in Statistics and Data Science (See also M.Eng., Course VI-P)
<b>Michael N. Truell</b> Also with a Major in Course XVIII (February, 2022)	<b>Shannon P. Wing</b>	<b>Qianqia Zhang</b> Minor in Mathematics
<b>Savannah B. Tynan</b> Minor in Mathematics	<b>Benjamin David Wolz</b>	<b>Jason Y. Zhao</b>
<b>Fausto Uribe</b>	<b>Anna Jiayi Wong</b> Also with a Major in Course XVIII Minor in Management	<b>Tong Zhao</b> Minor in Mathematics
<b>Monica M. Valcourt</b>	<b>Elaine Y. Xiao</b>	<b>George Zheng</b>
<b>Nancy Sheccid Vargas Balderas</b>	<b>Timmy Xiao</b> Minor in Mathematics	<b>Jessica Amber Zheng</b> Minor in Mathematics
<b>Derek J. Velez</b>	<b>Ari Xie</b> Minor in Writing	<b>Winnie X. Zheng</b>
<b>Ashika Verma</b> Minor in Music	<b>Katherine Xiong</b> Minor in Economics Minor in Mathematics	<b>Ye Cheng Zheng</b>
<b>Eli Villa</b> Minor in Physics	<b>Katherine Yang Xu</b> Minor in Mathematics (February, 2022)	<b>Sophia Zhi</b> Minor in Linguistics
<b>Daniel C. Vuong</b> Also with a Major in Course XVIII Minor in Economics	<b>Michelle Yakubek</b> (February, 2022)	<b>Elizabeth Y. Zou</b> Also with a Major in Course XVIII (See also M.Eng., Course VI-P)
<b>Ellen F. Wang</b>		
<b>Emily Jiatong Wang</b> Minor in Comparative Media Studies		

**Bachelor of Science in  
Computer Science and  
Molecular Biology**

Course VI-7

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

Miles Povich Agus

Tiwalayo Terrence-Luke Aina  
Also with a Major in Course XVIII  
(See also M.Eng., Course VI-7)

Elena Rosette Andree

Hieu Dinh  
Also with a Major in Course V  
Minor in Physics

Shulammite Eve Lim  
Also with a Major in Course XXI-M

Stephen J. Lostetter III

Karthik Nair  
(See also M.Eng., Course VI-7)

Samuel Toliver Eaton Nitz

Clinton S. Reid  
Also with a Major in Course XVIII

Ailis Robinson  
Minor in Japanese

Harveer Singh

Elaine Wu

Andrew G. Xue

Stephanie Xue Zhang  
Also with a Major in Course XVII

**Bachelor of Science in  
Computer Science, Economics,  
and Data Science**

Course VI-14

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

Giovanni J. Ahern

Also with a Major in Course XVIII  
Minor in Finance

Griffin Scott Ansel

Rikita Bansal  
Minor in Business Analytics  
Minor in Literature

Alain Roberto Berwa

Julia M. Caravias  
Minor in Environment and Sustainability  
Minor in Statistics and Data Science

Rachel Cheng  
Also with a Major in Course XVIII  
Minor in Business Analytics

Vijay Dey  
Minor in Mathematics

Alexander C. Ellison

Danielle B. Fang

Xingchen Joy Feng  
Also with a Major in Course XVIII  
Minor in Music

Benjamin P. Gulak  
(February, 2022)

William A. Jones  
Also with a Major in Course XXI-L  
Minor in Business Analytics

Deekshita Kacham  
Minor in Women's and Gender Studies

Thatcher A. Kaspers

Ali Sinan Kaya  
Minor in Business Analytics

Lara Linnea Ketonen  
Minor in Business Analytics  
Minor in Design

Andrew Rubin Masami Komo  
Also with a Major in Course XVIII  
(February, 2022)

Christopher J. McKinney

John H. Montinaro

Pranit Nanda  
(February, 2022)

Thomas B. Ogeka  
Minor in Statistics and Data Science

Orrie B. Page  
Minor in Business Analytics

Joseph C. Powell

Ramon Jesse H. Roco, Jr.  
Minor in Mathematics

Annika Eleanore Sougstad  
Also with a Major in Course XV-2

Sarah R. Wertheimer

Wendy Dee Yin

Karina C. Zhang

Suki Zhang  
Also with a Major in Course XV-2

Amber Zheng

Tianxin Zheng  
Minor in Mathematics

**Bachelor of Science in Chemical  
Engineering**

Course X

*Department of Chemical  
Engineering*

Nicholas E. Aiello  
Minor in Economics

Noah B. Brooks

**Chloe Ann Ophelia Brown**  
Minor in Economics

**Quan H. Do**

**Danica Dong**  
Minor in Design  
Minor in Energy Studies

**William Everett Exxon**  
Minor in Business Analytics

**Evan James Gwozdz**  
Minor in Management

**Audrey R. Leibig**  
Minor in Environment and Sustainability

**Ruoxin Lu**  
Minor in Chemistry  
Minor in Writing

**D'Ante L. McCollum**

**Nicole Marie Munné**  
Minor in Management

**Alec M. Nguyen**  
Minor in Economics  
Minor in Energy Studies

**Alyssa M. Spencer**  
Minor in Chemistry

**Ashleigh Nicole Teygong**  
Minor in Management

**Chih Yu Tung**  
Minor in Energy Studies

**William P. Woltmann**  
Minor in Biology

**Bachelor of Science in Chemical-Biological Engineering**  
Course X-B  
*Department of Chemical Engineering*

**Juan A. Aleman**

**Spencer Patryck Delgado**  
Minor in Mathematics

**Antonio E. Diaz**  
Minor in Biology

**Isabella R. Gengaro**  
Minor in Computer Science

**David E. Gomez**

**Mariss Haddad**  
(February, 2022)

**Anna Alexis Johnson**  
Minor in Business Analytics  
(February, 2022)

**McKenzie Sampson McArthur**  
Minor in Biology  
Minor in Writing  
(February, 2022)

**Jaclyn A. Ng**  
Also with a Major in Course VII

**Britney Han Pham**  
Also with a Major in Course VII  
(February, 2022)

**Yvonne Rong**  
Also with a Major in Course VII

**Jonathan Joseph Sandlin**

**Liliana C. Vela**  
Also with a Major in Course VII

**Sydney M. Vleck**  
Also with a Major in Course VII  
(February, 2022)

**Bachelor of Science as recommended by the Department of Chemical Engineering**  
Course X-C  
*Department of Chemical Engineering*

**Kailyn M. Bryk**  
Also with a Major in Course XV-2  
(February, 2022)

**Bachelor of Science in Engineering as recommended by the Department of Chemical Engineering**  
Course X-ENG  
*Department of Chemical Engineering*

**Lina Atif Ahmed**  
Minor in Computer Science

**Ayomikun Ayodeji**  
Also with a Major in Course XV-1

**Jude Bonesteel**  
Minor in Energy Studies

**Laura Chunying Chen**  
Minor in Public Policy

**Shuxin Chen**  
Minor in Computer Science  
(February, 2022)

**Nicholas Philip Duchatellier**  
Minor in Economics

**Tomás M. Herrera**  
Minor in Computer Science

**Destinee-Jade Tsai Hung**  
Minor in Computer Science

**Alexander H. Liu**

**Liew Min**

**Avery K. Nguyen**  
Also with a Major in Course XXI-L

**Christine Marie Padalino**  
Also with a Major in Course XII

**Natalia Perez-Lodeiro**  
Minor in Energy Studies

**Paula F. Pieper**  
Minor in Statistics and Data Science

**Naksha Roy**  
Minor in Management

**Kelly Shuyao Wu**

**Ming Ying Yang**  
Also with a Major in Course VI-3  
Minor in Economics

**Bachelor of Science in Aerospace Engineering**  
Course XVI  
*Department of Aeronautics and Astronautics*

**María Paula Barbosa**  
Minor in Astronomy

**Lindsey Catherine Bjornstad**  
Minor in Political Science

**Jack J. Capper**  
Minor in Computer Science

**Henri Conradt Champigneulle**  
(February, 2022)

**Vittorio Colicci IV**  
Also with a Major in Course VIII  
Minor in Earth, Atmospheric, and Planetary Sciences  
Minor in Astronomy

**Megan F. L. Cooper**  
Also with a Major in Course III-A

**Sean G. Crozier**  
Minor in Literature

**Lukas Z. Drexler-Bruce**

**Thomas S. Edelman**

**German A. Espinosa**  
Also with a Major in Course VI-2  
Minor in Music

**Charles Johannes Fenske**

**Wyatt M. Giroux**

**Carlos G. Hernandez**  
Also with a Major in Course VI-2  
(February, 2022)

**Alexander James Hodge**  
Minor in Music

**Brian Hoon Hoh**  
Minor in Computer Science

**Kevin James**  
Minor in Computer Science

**Eun Young Jung**  
Minor in Computer Science

**Jayaprakash Ding Yuan Fung Kam-bhampaty**

**William John Kuhl**

**Max K. Kwon**

**Alassia N. Lang**  
Minor in Japanese

**Daniel Ledesma**  
Minor in Japanese

**Erin M. Leydon**

**Cici Mao**

**Parker Mayhew**

**Bryan S. Medina**

**Amanda F. Olphie**  
(September, 2021)

**John Michael Ped**

**Jacqueline E. Pedlow**  
Minor in Economics

**Victor M. Perez-Ramirez**

**Joshua E. Rapoport**

**Matthew E. Schofield**  
Minor in Computer Science

**Steven Serrano**

**Juliana R. Silldorff**  
Minor in Political Science

**Ethan Sit**

**Jon K. Stenger**  
Minor in Computer Science

**Delia Stokes Stephens**  
(See also S.M., Course XVI)

**Michelle S. Tang**

**Isabella S. Torres**  
Also with a Major in Course XV-1  
Minor in Spanish

**David Dezell Turner**

**Herbert M. Turner IV**  
Also with a Major in Course VI-2

**Tara Kamala Venkatadri**  
Minor in Earth, Atmospheric, and Planetary Sciences

**Catherine L. Washburn**  
(February, 2022)

**Tyler Chase Worthley**  
Minor in Economics

**Azreen Zaman**  
Also with a Major in Course VI-2  
Minor in Economics

**Maggie Zheng**

**Bachelor of Science in Engineering as recommended by the Department of Aeronautics and Astronautics**  
Course XVI-ENG  
*Department of Aeronautics and Astronautics*

**Juliana L. Chew**  
Also with a Major in Course VI-2

**Elissa Akusika Gibson**  
Also with a Major in Course IX

**Dylan F. Goff**  
Minor in Earth, Atmospheric, and Planetary Sciences

**Jared L. Hensley**  
Minor in Computer Science

**Devin Johnson**  
Minor in Physics

**Anika A. Kamath**

<b>Alexander P. Koenig</b> Also with a Major in Course VIII (February, 2022)	<b>Malik Aaron George</b> Minor in African and African Diaspora Studies	<b>Giramnah Sofía Peña-Alcántara</b>
<b>Katherine Kutina</b> Minor in Brain and Cognitive Sciences	<b>Miles Avery George</b> Minor in African and African Diaspora Studies	<b>Alexandra Jeena Poret</b> Minor in Science, Technology, and Society
<b>Abdulazeez Mohammed Salim</b> Also with a Major in Course VIII	<b>Karenna Jade Groff</b> Minor in Brain and Cognitive Sciences	<b>Diana C. Renteria</b>
<b>Savva Morozov</b>	<b>Dana L. Haig</b>	<b>Haniyah Shareef</b>
<b>Kaila Guarda Pfraang</b> Minor in Public Policy	<b>Emily L. Han</b>	<b>Juliana M. Strother</b> Minor in Brain and Cognitive Sciences
<b>Karolina Weronika Podsada</b>	<b>Hannah Joy Harens</b> Minor in Statistics and Data Science	<b>Allison Y. Tong</b> Minor in Computer Science
<b>Bachelor of Science in Biological Engineering</b> Course XX <i>Department of Biological Engineering</i>	<b>Nicole Rose Haseley</b>	<b>Brian A. Williams</b>
<b>Sarah Wonboon Acolatse</b>	<b>Camellia Huang</b>	<b>Heekyoung Woo</b> (February, 2022)
<b>Lainie W. Beauchemin</b>	<b>Maile Marie Yu Liang Jim</b>	<b>Melody Wu</b> Minor in Environment and Sustainability Minor in Design
<b>Imane Bouzit</b>	<b>Devin T. King-Roberts</b>	<b>Eleanor Lee Xiao</b>
<b>Laura E. S. B. Chen</b> Minor in History	<b>Jessica R. Knapp</b>	<b>Michelle Yin</b> Minor in Computer Science
<b>Prem Chintalapudi</b> Also with a Major in Course VI-3 (February, 2022)	<b>Olivia Rose Lucchese</b>	<b>Linda A. Yu</b>
<b>Kaden S. DiMarco</b>	<b>Oyuntugs Luubaatar</b>	<b>Chelsea Jiaruo Zhang</b> Minor in Women's and Gender Studies
<b>Desmond Livingston Edwards, Jr</b> Also with a Major in Course VII Minor in French	<b>Kevin S. Ly</b> Also with a Major in Course VI-2 Minor in Mechanical Engineering	<b>Wen Ting Zheng</b>
<b>Erinn L. Fagan</b> Also with a Major in Course IX	<b>Michael Vincent Mandanas</b> Minor in Computer Science	<b>Bachelor of Science in Nuclear Science and Engineering</b> Course XXII <i>Department of Nuclear Science and Engineering</i>
<b>Kylie Jane Gallagher</b>	<b>Anais Victoria Marenco</b>	<b>Liam S. Hines</b> Also with a Major in Course XXIV-1
<b>Jenny Gao</b> Minor in Applied International Studies	<b>Abigail Mauermann</b> Minor in Biology	<b>Joseph W. Jerkins</b> Also with a Major in Course VIII (February, 2022)
<b>Diana L. Garibay</b>	<b>Carlos F. Mercado-Lara</b> Also with a Major in Course XV-1	<b>Peninah Lise Levine</b> Minor in Public Policy (See also S.M., Course XXII)
	<b>Ilana Sandra Nazari</b> Minor in Spanish	
	<b>Sharon Chidinma Opara-Ndudu</b> Minor in Political Science	
	<b>Joshua J. Park</b>	

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

Course XXII-ENG  
*Department of Nuclear Science and  
Engineering*

Amelia J. Cavallaro  
Minor in Computer Science

Jovier Alejandro Jiménez  
Minor in Economics  
Minor in Energy Studies

## SCHOOL OF HUMANITIES, ARTS, AND SOCIAL SCIENCES

### Bachelor of Science in Economics

Course XIV-1

*Department of Economics*

**Bevan Anthony Gordon Pereira**

### **Liam R. Miller**

Minor in Mathematics

**Chase A. Reid**

**Lauren Elizabeth Rice**

### **Luke R. Stewart**

Minor in Mathematics

### Bachelor of Science in Mathematical Economics

Course XIV-2

*Department of Economics*

### **Prosser M. Cathey**

Also with a Major in Course XVII

Minor in Management

### **Lucy Ayres McMillan**

Minor in Environment and Sustainability

Minor in Public Policy

### **Ashley Ann Thomas**

(February, 2022)

### **Hanna Alexa Tuomi**

Minor in Mechanical Engineering

Minor in Design

### Bachelor of Science in Political Science

Course XVII

*Department of Political Science*

### **Zachary Daniel Alfaro**

Also with a Major in Course XV-3

### **Yuxin Chen**

### **Roy H. Kwon**

Minor in Science, Technology, and Society

### Bachelor of Science in Music

Course XXI-M

*Music and Theater Arts*

### **Anna Baiba Aldins**

Minor in Mathematics

Minor in Ancient and Medieval Studies

### **Eva A. Demsky**

Also with a Major in Course XIV-2

### **Katherine E. Karwoski**

Also with a Major in Course IX

### Bachelor of Science in Music and Theater Arts

*Music and Theater Arts*

### **Peter Anthony Tone**

Also with a Major in Course VI-3

### Bachelor of Science in Humanities and Engineering

Course XXI-E

*Department of Humanities*

### **Jonah A. Baskerville**

### **Preston Bezos**

### **Yiqing He**

(February, 2022)

### **Hayley Ye**

Minor in Design

### Bachelor of Science in Humanities and Science

Course XXI-S

*Department of Humanities*

### **Amira Casaclang Beck**

### **Madeline Ferrari Holtz**

### **Sarah Bingham Knopf**

### **Tanya M. Llanas**

### Bachelor of Science in

**Linguistics and Philosophy**

Course XXIV-2

*Department of Linguistics and Philosophy*

### **Kristy M. Chang**

### **Theodor Cucu**

Also with a Major in Course VI-9

### **Rujul Gandhi**

Also with a Major in Course VI-2

### Bachelor of Science in

**Comparative Media Studies**

*Program in Comparative Media Studies*

### **Andi L. Mitchell**

### **Miriam G. Suarez**

### **AudreyRose Ramona Wooden**

## SLOAN SCHOOL OF MANAGEMENT

### Bachelor of Science in Management

Course XV-1

*Sloan School of Management*

**Gavin M. Fischer**

Minor in Computer Science

**Ian J. Hinkley**

Also with a Major in Course II-A

Minor in Anthropology

**Shelli Orzach**

Also with a Major in Course XVIII

Minor in Environment and Sustainability

**Christine M. Sanchez**

Also with a Major in Course VI-14

**Sajjad A. Zaheer**

(February, 2022)

**Elizabeth Abby Zhou**

Also with a Major in Course VI-3

(September, 2021)

**Jenny Zhu**

Also with a Major in Course VI-14

Minor in Entrepreneurship & Innovation

### Bachelor of Science in Business Analytics

Course XV-2

*Sloan School of Management*

**Tevita Asilolohea Akau**

Minor in Computer Science

**Giulia Alvarenga**

Minor in Computer Science

**Christina Elizabeth Antonakakis**

Also with a Major in Course VI-14

**Brian S. Glat**

Also with a Major in Course XVIII

**Julia Elena Gonzalez Fernald**

Also with a Major in Course XI

**Adam M. Katz**

**Aaron Lu**

Also with a Major in Course VI-14  
Minor in Mathematics

**Valeria N. Martin Del Campo**

(February, 2022)

**Sarah Anne Moseson**

Minor in Urban Studies and Planning  
(February, 2022)

**Peter J. Novoa**

Also with a Major in Course VI-14

**Munachimso C. Nwana**

**Johnvir S. Pangli**

**Audrey Wohl Pettigrew**

Also with a Major in Course VI-14

**Mia Reilly**

**Roland Rocafort Fernández**

Also with a Major in Course VI-14  
Minor in Mathematics

**Margaret Elizabeth Rodriguez**

Also with a Major in Course VI-14

**John D. Steele**

Minor in Computer Science

**Eileen I. Tan-Aristy**

Minor in Computer Science

**Lydia Yu**

Also with a Major in Course VI-14

### Bachelor of Science in Finance

Course XV-3

*Sloan School of Management*

**William Wei-En Chang**

Also with a Major in Course VI-14

**Alexander D. Hom**

Also with a Major in Course VI-14

**Keith B. Lamp**

Also with a Major in Course XVIII

**Diana Ma**

**Maya Reyes**

**Gabriela I. Rodriguez**

**James Thomas Santoro**

**Sebastian Simon**

Also with a Major in Course XIV-2

**Ryan Suh**

Minor in Japanese  
Minor in Computer Science

**Jennifer Yu**

Minor in Economics

## SCHOOL OF SCIENCE

### Bachelor of Science in Chemistry

Course V

*Department of Chemistry*

**Zachary E. Chin**

Also with a Major in Course VI-2

Minor in Music

**Yutong Dai**

Also with a Major in Course VI-7

(February, 2022)

**Rondel S. Garguilo**

**Peter Garrett Hegel**

Minor in Computer Science

**Ruby Anise Kharod**

Minor in Science, Technology, and

Society

**Jiwon Michelle Lee**

Minor in Biology

Minor in Public Policy

**Alex Jie Li**

**Xochitl Luna**

Minor in Brain and Cognitive Sciences

**Omar A. Santiago Reyes**

Minor in Biology

Minor in Music

**Abigail Kamila Dawn-Marie Scott**

### Bachelor of Science in Chemistry and Biology

Course V-7

*Department of Chemistry*

**Aniket Dehadrai**

Minor in Theater Arts

**Leyna Duong**

Minor in Writing

**Laney R. Flanagan**

**Hannah R. Grupe**

**Marina Grace Monsivais**

**Mydia Diep Phan**

Also with a Major in Course IX

**Shannon Yuanling Weng**

Minor in Physics

(February, 2022)

### Bachelor of Science in Biology

Course VII

*Department of Biology*

**Titash Biswas**

Minor in Brain and Cognitive Sciences

Minor in Science, Technology, and

Society

**Eduardo A. Canto**

**Silvia Seoyeon Cho**

Also with a Major in Course IX

**Michelle Junyi He**

Also with a Major in Course IX

Minor in Applied International Studies

**Alexandra Fallon Hoffman**

**Jonas Kantola**

**Heya Lee**

**Soo Min Lee**

(February, 2022)

**Sarah C. Lincoln**

Also with a Major in Course XXI

**Isha Mehrotra**

**Adesefeoise Michael Oriaifo**

(February, 2022)

**Vaishnavi V. Phadnis**

**Rachel Min Shen**

Minor in Earth, Atmospheric, and Planetary Sciences

**Sofía Isabel Torres Bigio**

**Max Yael von Franqué**

Also with a Major in Course XI

**Zhishan Wang**

Minor in French

**Jason Yang**

Minor in Computer Science

**Daniel D. Zhang**

Minor in Comparative Media Studies

### Bachelor of Science in Physics

Course VIII

*Department of Physics*

**Brendan Michael Ashworth**

Also with a Major in Course VI-9

(February, 2022)

**Elliott M. Barnhill**

Also with a Major in Course XXI-L

**Mason G. Bishop**

**Quinn Nicole Brodsky**

Also with a Major in Course XVIII

Minor in Writing

**Kiara T. Carloni**

Minor in Mathematics

Minor in Literature

**Grecia Castelazo**

Also with a Major in Course VI-2

Minor in Mathematics

**Chang-Han Chen**

Also with a Major in Course XVIII

**Shiqi Chen**

Also with a Major in Course VI-2

**Sabrina Y. Cheng**

Minor in Computer Science

**Diego Colín**

Minor in Urban Studies and Planning

**Sean Condon**

Minor in Computer Science

(February, 2022)

**William P. Cuozzo**  
Also with a Major in Course VI-14  
Minor in Mathematics  
Minor in Business Analytics

**Kylie Yui Dan**  
Minor in Astronomy  
Minor in Japanese

**John Theodore Dinsmore**  
Minor in Mathematics  
Minor in Astronomy

**Luke C. Gianni**  
(February, 2022)

**Max R. Hardy**  
Also with a Major in Course VI-1  
Minor in Materials Science and Engineering

**Sihao Huang**  
Also with a Major in Course VI-1  
Minor in Political Science

**Nory G. Klop-Packel**

**Serhii Kryhin**

**Jesus E. Lares**  
Also with a Major in Course VI-3

**Keiran James Lewellen**  
Also with a Major in Course XVIII

**Chih-Wei Joshua Liu**

**Keith Gerard Mokry**  
Minor in Computer Science

**Manuel Morales**  
Also with a Major in Course VI-1  
Minor in Energy Studies

**Karna Ashwin Morey**

**Quynh The Nguyen**  
Also with a Major in Course VI-3  
Minor in Mathematics

**Mikael Girma Nida**  
Also with a Major in Course VI-3

**Mofeyifoluwa O. Oluwalana**  
Also with a Major in Course VI-2

**Alex F. Pacheco**

**Ava Alexandra Baer Pettit**

**Maya L. Reese**  
(February, 2022)

**Elena A. Romashkova**  
Also with a Major in Course XII

**Lulu Danger Russell**

**Yoshihiro Saito**  
Minor in Mathematics  
Minor in Computer Science

**Eve Lockhart Schoen**

**Devin Jon Seyler**  
Also with a Major in Course XVIII  
Minor in Energy Studies

**John Shackleton**  
Also with a Major in Course VI-3

**Bereket Z. Sintayehu**

**Alexander W. Smith**  
Minor in Chemistry

**Alexandra R. Stewart**

**Michal Szurek**  
Also with a Major in Course VI-1

**Joshua R. Talbot**  
Also with a Major in Course VI-2  
Minor in Mathematics  
(February, 2022)

**Octavio J. Vega**  
Also with a Major in Course XVIII  
Minor in Public Policy

**Rokas Paul Veitas**  
Also with a Major in Course XVIII

**Cindy Wang**  
Also with a Major in Course VI-3

**Raymond A. Wynne**  
Also with a Major in Course VI-1  
Minor in Mathematics

**YuQing Xie**  
Also with a Major in Course XVIII-C

**Hao Bang Yang**  
Also with a Major in Course VI-3

**Muye Yang**  
Also with a Major in Course XVIII-C  
Minor in Statistics and Data Science

**Yuan-Chen Yeh**  
Also with a Major in Course XVIII

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

Course IX  
*Department of Brain and Cognitive Sciences*

**Chelsea Chinyere Ajunwa**

**Maggie Chen**  
(February, 2022)

**Aidan Cook**  
Minor in Theater Arts

**Erick J. Eguia**  
Minor in Biology

**Kristine Marie Hocker**

**Alana Nicole Kalehua**  
Minor in Biology

**Ravi Kapoor**

**Rucha Atul Kelkar**  
(February, 2022)

**Dana Marie McCormack**

**Keith Michael Skaggs**  
Minor in Biology

**Kareena L. Villalobos**  
Minor in Writing

**Yizhi Wang**  
Minor in Theater Arts

**Anna Laura Wilson**

**Bachelor of Science in**  
**Computation and Cognition**

Course VI-9

*Department of Brain and Cognitive Sciences in conjunction with the Schwarzman College of Computing*

Tyler H. Allen

Annalisa Justine Broski

Hannah T. Collins

Sophia Emmanuelle Diggs-Galligan

Cesar I. Duran

Benjamin Dwyer

Emelie Ann Eldracher  
Minor in Management

Mohammed M. Elkholy

Caleb M. Harris

Alisa Y. Hathaway  
Minor in Mechanical Engineering

Doron Hazan  
Also with a Major in Course XV-2  
(February, 2022)

Annika L. Heuser  
(February, 2022)

Ashley K. Holton

Emily Huang  
Minor in Writing

Michelle S. Hung

Bhav Jain

Joanna Sarah Kennedy  
Minor in Biomedical Engineering  
Minor in Science, Technology, and Society

Faduma Bashir Khalif  
Minor in Mathematics

Isaac Kyle Lau  
(February, 2022)

Robert Cheukying Law  
Minor in Music

Vinh Phúc Lê

Noah Hye-Jae Lee  
(February, 2022)

Griffin S. Leonard

Mason T. Lykes

Elian Malkin  
Minor in Mechanical Engineering

Keith Thomas Murray  
Also with a Major in Course XXIV-2

Haylee J. Niemann

Uche O. Okwo

Eileen Pan

Nikasha G. Patel

Mariela M. Perez-Cabarcas  
Minor in Russian and Eurasian Studies

Habeeb Ayodeji Salau

Luyao Tian  
Minor in Design

Aniekhan M. Umoren

Olivia G. Valle

Lily Wang  
Also with a Major in Course XV-1

Brody West

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

*Department of Earth, Atmospheric, and Planetary Sciences*

Juliana Kristine Drozd

Lin Hou  
Also with a Major in Course VII

Zoe Levitt  
Minor in Mathematics  
Minor in Music

Lily N. Zhang  
Also with a Major in Course VIII  
Minor in Public Policy

**Bachelor of Science in**  
**Mathematics**

Course XVIII  
*Department of Mathematics*

Sualeh Asif  
Also with a Major in Course VI-3  
Minor in Theater Arts

Dina Atia  
Also with a Major in Course VI-14  
Minor in Philosophy

Nicholas Shiao Baginski  
Also with a Major in Course VI-14

Daniel C. Barnett  
Also with a Major in Course VI-3  
Minor in Economics

Scott C. Becker  
Also with a Major in Course VI-3  
(See also M.Eng., Course VI-P)

Scott E. Belair  
Also with a Major in Course XV-2

Elisabeth Daniella Bullock

Yiran Cai  
Also with a Major in Course VI-3

Andrea Ck Chan  
Minor in Economics  
(February, 2022)

Ashley Chen  
Also with a Major in Course VI-3

Jason Chen  
Also with a Major in Course VI-3

**Kelly Judy Chen**  
Also with a Major in Course V

**Kenny Chen**  
Minor in Physics  
Minor in Japanese

**Jung Soo V. Chu**  
Also with a Major in Course VI-3

**Sophia L. Cohen**  
Also with a Major in Course XXI-W  
(February, 2022)

**Preston Cranford**

**Jonah M. Darnel**  
(February, 2022)

**David W. Darrow**  
Minor in German

**Daniel G. Edelman**  
Also with a Major in Course VI-3

**Elias Theodore Garcia**

**Swapnil Garg**  
Also with a Major in Course VIII  
Minor in Biology  
Minor in Computer Science

**Elley M. Goldberg**  
Minor in Economics

**Andrew Gu**  
Also with a Major in Course VI-3

**David He**  
Also with a Major in Course VI-3

**Alexandra A. Hoey**  
Minor in Computer Science

**Letong Hong**  
Also with a Major in Course VIII

**Brian R. Huang**  
Also with a Major in Course VI-3

**Nabil Khalil**  
Also with a Major in Course XXI-M  
Minor in Physics  
Minor in Finance  
(February, 2022)

**Robert Koirala B.K.**  
Also with a Major in Course VIII

**Junhee Lee**  
Also with a Major in Course VI-3  
Minor in Music

**Madeleine Kaiyuan Li**

**Wanlin Li**  
Also with a Major in Course VI-3  
(See also M.Eng., Course VI-P)

**Ian J. Limarta**  
Also with a Major in Course VI-3

**Andrew Y. Lin**  
Also with a Major in Course VIII  
Minor in Music

**James H. Lin**  
Also with a Major in Course VI-3

**Daniel S. Liu**  
Also with a Major in Course VI-2  
Minor in Music

**William Henry Francis Ludington**

**Arvid Lunnemark**  
Also with a Major in Course VI-3

**Joy Yan Ma**  
Minor in Economics

**Michael Yuanchao Ma**

**Annah Aurelia Grace Mercer**

**William K. Nash**  
Also with a Major in Course VI-3

**Hesham Nawaz**  
Also with a Major in Course VI-14

**Anders Olsen**  
Also with a Major in Course VI-3

**Justin S. Park**  
Minor in Physics  
Minor in Computer Science

**Alan E. Peng**  
Minor in Music

**Dylan G. Pentland**

**Mario A. Pereira**

**Maximilian Porlein**  
Also with a Major in Course VI-14

**Hugo Ernesto Ramirez, Jr.**  
Also with a Major in Course VI-3

**Kevin K. Ren**  
Also with a Major in Course VIII  
(February, 2022)

**Michael Ren**  
Also with a Major in Course VI-3

**René David Reyes Bardales**  
Also with a Major in Course VI-3

**Ana Paola Reyes Sánchez**  
Also with a Major in Course XXIV-1

**Hayden MacKenzie Rome**  
Also with a Major in Course VI-3

**Isabel Sarah Hokua Rosa**  
Also with a Major in Course VI-3  
Minor in Spanish  
Minor in Statistics and Data Science  
(February, 2022)

**Peter Niiler Rowley**  
Also with a Major in Course VI-3

**Amber Z. Shen**

**Veronika Silkin**

**Mihir Anand Singhal**  
Also with a Major in Course VI-3

**Edwin Cheng Song**  
Also with a Major in Course XIV-1

**Emerson Gabriel Studt**  
(September, 2021)

**Megan Su**  
Also with a Major in Course VI-3

**Abram Lucas Turner**  
(February, 2022)

**Amanda Isabel Vanegas Ledesma**  
Also with a Major in Course XII

**Collin Robert Warner**  
Also with a Major in Course VI-3

**Xunjing Wei**

**Catherine W. Wu**  
Also with a Major in Course VI-3

**David Xing Wu**  
Also with a Major in Course VI-3

**Wanyi Xiao**  
Also with a Major in Course VI-2

**Grace Xiong**  
Minor in Finance  
Minor in Music

**Guanpeng A. Xu**  
Also with a Major in Course VI-3

**Torridon D. Yearwood**  
(February, 2022)

**Joshua Yoon**  
Also with a Major in Course VI-14

**Leah Sullivan Yost**  
Also with a Major in Course XXI-W

**Jeffery Yu**  
Also with a Major in Course VIII  
Minor in Music  
Minor in Computer Science

**Shengtong Zhang**  
Also with a Major in Course VI-3  
Minor in Economics

**Grace Y. Zheng**  
Also with a Major in Course XV-2  
Minor in Computer Science

**Bachelor of Science in**  
**Mathematics with Computer**  
**Science**

Course XVIII-C  
*Department of Mathematics*

**Fiyifolu Olufemi Han Adebekun**

**Ifeoluwapo Imammachukwu Ademobi-Odeneye**

**Aruzhan Amanbayeva**

**Andrea Arias**  
Minor in Women's and Gender Studies

**Julia Balla**  
Minor in Economics

**Azariah Z. Beyene**

**Casey Spencer Bussone**

**Kyri H. Chen**  
Minor in Economics

**Shardul Chiplunkar**

**Briana A. Douglas**

**Brin Catherine Harper**  
Also with a Major in Course XXIV-1  
(February, 2022)

**Michelle Y. He**  
Minor in Finance

**Linda Huang**

**Megan Joshi**

**Terry T. Kang**

**Jabari A. King**  
(September, 2021)

**Michelle Li**

**Hannah Liu**  
Minor in Chinese  
(February, 2022)

**Melissa Mu**

**Willis Y. Ong**

**Omomayowa Songonuga**  
Minor in Design

**Alice Anran Zhang**  
Also with a Major in Course XXIV-1

**Cindy Y. Zhang**

**Kathryn Zhao**  
Also with a Major in Course XV-1

## SCHOOL OF ARCHITECTURE AND PLANNING

### **Master of Architecture**

Course IV

*Department of Architecture*

**Ana Paula Arenas**

(February, 2022)

A Taste of Home (with C.-A. Rodrigues)

**Taylor Lynn Boes**

(February, 2022)

The Incomplete Domestic Landscape  
(with F. Ma)

**Jonathon Glyn Brearley**

(See also S.M. Building Tech., Course IV)  
Taming Torridity: New Housing Forms  
for Heat Resilience

**Ryan Clark Clement**

(February, 2022)

Bernini Started It (with C. Matthai)

**Ginevra D'Agostino**

(February, 2022)

Rebuilding the Edge: The Case of the  
Sulmona-Carpinone Railway and the  
Town of Pettorano sul Gizio

**Angelica Marie Door**

(February, 2022)

Fourth Dimension

**Hugh Timothy Ebdy**

The Renovation of East Campus: Control  
and Culture

**Nare Filiposyan**

(February, 2022)

(Re)Turn to Stone

**Daniel Griffin**

(February, 2022)

Seeing Labor (with I. Ow Su Wei)

**Ji Ye Ha**

(See also S.M., Real Estate Development)  
Co-Working in Seoul: Integrating Public  
Infrastructure into the Metaverse

**Emma Jane Eileen Jurczynski**

(February, 2022)

Who Cares? Assemblies of Care-and-  
Repair

**Katharine Amelia Kettner**

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

Inheritance Geographies: Black Presence  
and the Making of London

**En-Han Thaddeus Lee**

2.5D: An Exploration of Hybrid 3D  
Printing on Fabric

**Florence Luyao Ma**

(February, 2022)

The Incomplete Domestic Landscape  
(with T. Boes)

**Charlotte Rose Matthai**

(February, 2022)

Bernini Started It (with R. Clement)

**Ana Alice McIntosh**

(February, 2022)

Inhabiting Wetness

**Christopher Masahiko Moyer**

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

Expanding Architectures of Sharing:  
Public Housing Authority-Supported  
Middle-Income Limited-Equity  
Cooperatives

**Ruth Blair Moyers**

(February, 2022)

Accurate-ish

**Inez Ow Su Wei**

(February, 2022)

Seeing Labor (with D. Griffin)

**Carol-Anne Veronica Rodrigues**

(February, 2022)

A Taste of Home (with A. Arenas)

**Jia Li Song**

(February, 2022)

Speculative Friction: Seven Stories from  
the Geneva Freeport (with Y. Yacoby)

**Yutan Sun**

(February, 2022)

Pronounced Absurdity: The Wedding-  
scape Outside a Conical Field

**Gil Schwimmer Sunshine**

(February, 2022)

Medium Resolution

**Jitske Swagemakers**

(February, 2022)

Forest Framing

**Carolyn Tam**

(February, 2022)

The Third Teacher : Architecture as  
Enabler of Active Learning

**Evellyn Tan**

(February, 2022)

Tsunami Bosai

**Ellen Wood**

(February, 2022)

Under (De)Construction

**Jie Wu**

(February, 2022)

Specious Materials (with Z. Xu)

**Zhicheng Xu**

(February, 2022)

Coping with Neighbors and Other  
Entanglements

**Zhifei Xu**

(February, 2022)

Specious Materials (with J. Wu)

**Yaara Yacoby**

(February, 2022)

Speculative Friction: Seven Stories from  
the Geneva Freeport (with J.L. Song)

**Mengqiao Zhao**

(February, 2022)

Fukushima Exclusion Zone Survival  
Handbook

### **Master of Science in**

### **Architecture Studies**

Course IV

*Department of Architecture*

**Maryam Aljomairi Alhajri**

Self-Shaping Mechanisms: Prototyping  
of PneuKnit Systems

**Feiyue Chen**

(February, 2022)

Symbols and Spatiality of Social Media:  
Re-Constructing the Digital Public Realm

**Joel Austin Cunningham**  
As the Curtain Falls

**Gabriela Degetau Zanders**  
The Afterlife of Wells, from Oil to Soil in the Amazonia

**Mariam E. Elnozahy**  
Visualizing Oil in Aramco World Magazine: Public Relations and Corporate Photography from 1949-1960

**Kiley Anne Feickert**  
Thin Shell Foundations: Embodied Carbon Reduction through Materially Efficient Geometry

**Aidan Flynn**  
(September, 2021)  
Surveilling Sin: Locating Sodomy in the Early Modern Florentine Bathhouse

**Laura Maria Gonzalez**  
Beyond the Brick: Collaborations with a Sensing Microbial System in the Built Environment

**James Heard**  
"Professionals in a Soviet America": Federal Housing Policy, the Popular Front, and Architects in Los Angeles, 1919–1947

**Shakeel Hossain**  
(February, 2022)

**Eakapob Huangthanapan**  
(September, 2021)  
Mediating Chana: Seeding Synergies between Doves and Development

**Ryuhei Ichikura**  
(September, 2021)  
Mokumitsu Districts in Tokyo

**Kimball Regli Kaiser**  
Parts-In-Progress

**Wonki Kang**  
(February, 2022)  
(See also S.M., Course VI)  
Sonic Hypermirror: Attuning to Hyperobjects

**Xuan Lan**  
China's Community Riders: Digital Labor, Delivery Logistics and Spaces

**Yuxuan Lei**  
(See also S.M., Course VI)  
A Virtual Reality Rehabilitation Interface with Augmented Sensing, Interaction, and Visualization Techniques

**Kuang-Chun Lo**  
Duality of Ground: Re-Envisioning Space of Death in New York City (with J. Prachasartta)

**Muhammad Hasan Nisar**  
An Experiment in Piety: The Three Domed Suhrawardy Tombs at Uchch Sharif

**Eleni Stylian Oikonomaki**  
(See also S.M., Course VI)  
Soundscapes as Urban Transformation: Introducing a Notational Language that Represents the Shifting Relationships Between Sound, Space, and Movement

**Olivia Paraiso de Campos Serra**  
(September, 2021)  
Seedling: Reconciling Social Housing and Access to Urbanity in Rio de Janeiro

**Jariyaporn Prachasartta**  
Duality of Ground: Re-Envisioning Space of Death in New York City (with K.-C. Lo)

**Lasse Rau**  
On Viscous Grounds: Planning for Friction across the Trans-Alaska Pipeline, 1968-1981

**Myles Boykins Sampson III**  
Discrete-to-Complete: The Fundamentals of Design Directed Robotics

**Siyuan Sheng**  
(September, 2021)  
Made in Rural China --The Analysis and Redesign of the Urbanization Trajectory for E-Commerce Villages in Rural China

**Meriam Soltan**  
Motivated Fictionality: Worldbuilding and The Thousand and One Nights

**Qianqian Wan**  
(September, 2021)  
Generative Urbanism toward Thermal Synergy: Sustainable Urban Design for District Heating and Cooling

**Ngai Hang Wu**  
Patterns of Moments - Reasoning about Space Video via Pattern Language of Human Behavior by Extracting Multi-Action Activities via Machine Learning Video

**Qianyue Xu**  
"Scraping and Bloodletting": Xiamen Dada and the Self-Renewing System of Reform-Era Art

**Master of Science in Art,**

**Culture and Technology**

Course IV

*Department of Architecture*

**Pohao Chi**  
(September, 2021)  
Synchronizing Glitches as Internetworked Entities

**Weihan Jiang**  
Imagined Common Ground: Rethinking on Language, Translation and Technology

**Kwan Yee Queenie Li**  
Hope-Hopping

**Jesus Ocampo Aguilar**  
(September, 2021)  
How to Never Walk in a Straight Line Again: A Methodology to Stop Making Sense.

**Faruk Sabanovic**  
Expanded Cinema and War; Trauma in Hyper-Documented Age

**Aarti Sunder**  
(September, 2021)  
A Location in Parts

**Master of Science in Building Technology**

Course IV

*Department of Architecture*

**Jonathon Glyn Brearley**  
(See also M. Arch., Course IV)  
Taming Torridity: New Housing Forms for Heat Resilience

**Yuan Cai**  
(February, 2022)  
(See also S.M., Course VI)  
Simulation- and Experiment-Based Setpoint Control for Heating, Ventilation, and Air-Conditioning Systems: A Single- and Multi-Objective Optimization Problem

**Jingyi Liu**  
(September, 2021)  
Early Design Stage Building Lifecycle Analysis (LCA) of Cost & Carbon Impact

### **Master in City Planning**

Course XI  
*Department of Urban Studies and Planning*

**Britani Nicole Allen**  
Cultivating Capacity in the Northeast's Native Seed and Plant Supply Chain

**Fiorella Belli Ferro**  
(September, 2021)  
Public Housing, Private Priorities: The Invisible Dynamics in Low-Income Housing Allocation in Urban Peru, the Case of CSP-Techo Propio (with M. Orensanz)

**Lauren Elspeth Craik**  
(See also S.M., Transportation)  
Congestion Pricing: Moving from Equity Analysis to Transportation Justice

**Miguel Ángel Dávila Uzcátegui**  
An Engagement Toolkit to Center Unhoused Stakeholders in the Design and Programming of Open Space

**Somala Marseau Diby**  
(September, 2021)  
Narrating the Politics of Urban Development in "New Era" Boston

**Neha Jayesh Doshi**  
(February, 2022)  
An Economic Development Practitioner's Guide to Childcare

**Ehab A. Ebeid**  
(See also S.M., Transportation)  
The Invisible Hand or the Handgun: Ride Hailing, Violence, and Political Settlements in the South African Urban Mobility Market

**John Thomas Fay, Jr.**  
(September, 2021)  
Housing for Whom: Does Adherence to Massachusetts' 40B Provide Adequate Stock of Housing Types Needed at the Local Level?

**Alexander Paine Gant**  
(September, 2021)  
Leveraging the US Army Corps of Engineers Civil Works Public-Private Partnerships (P3) Pilot Program to Promote Equitable Outcomes from Local Climate Mitigation and Adaptation Projects

**César Giovanni García López**  
(Re)envisioning Land and Power: The Fight for Community Ownership + Control in Massachusetts

**Andrea Daniela Grimaldi**  
(September, 2021)  
Envisioning Lower Allston's Future: Contested Spaces at the Margins of Harvard University's Expansion

**Lamice Halaby**  
Can Urban Gardening be a Case for Neighborhood Infrastructure Reparation The Case for Cambridge, Massachusetts

**Ava Rose Hoffman**  
(September, 2021)  
Commoning the Public: Federal Land as a Site of Housing Struggle in Rio de Janeiro

**Meital Hadassa Hoffman**  
Undead Bed: Mattress Recycling in Boston

**Rajan Jorden Hoyle**  
REMEMORY: Territorial Justice in Both Americas

**Adriana Maria Jacobsen**  
(September, 2021)  
Designing Public Transit at the Margins: How Rethinking Public Transit in Boston to Support the Travel Patterns of Transit-Reliant Women Could Transform Public Transportation for the Better

**Rhett Marville James**  
(September, 2021)  
StreetSmart: Reinventing Retail through Smarter Small Business

**Aiyah Josiah-Faeduwor**  
(February, 2022)  
Re-collective Revolution: A Reclamation of Black Self-Subsistent Economic Tradition

**Katharine Amelia Kettner**  
(See also M. Arch., Course IV)  
Inheritance Geographies: Black Presence and the Making of London

**Poun Laura Kim**  
(September, 2021)  
Brooklyn of Korea: Place Branding as a Process in Production of Space

**Allison Hannah Lee**  
(February, 2022)  
From Rural Ground to Rural Grocery: Designing a Local Food Value Chain

**Jasmine Marie Martin**  
(September, 2021)  
Neighborhood Mutual Aid Groups and Spaces of Deviant Care

**Maria de los Angeles Martinez Cuba**  
(September, 2021)  
Measuring Spatial and Social Interdependencies between Public Schools and the Community: City of Cambridge

**Danielle Evelyn-Olivia Moore**  
One Size Does Not Fit All:  
Individualizing Climate Action Plans in Southern California

**Maria Lucia Morelli**  
(September, 2021)  
The Right to Navigate Risk in Mexico City: Possibilities for Creating Safer Spaces for Women Experiencing Fear of Sexual Harassment in Their Daily Use of the City

**Christopher Masahiko Moyer**  
(See also M. Arch., Course IV)  
Expanding Architectures of Sharing: Public Housing Authority-Supported Middle-Income Limited-Equity Cooperatives

**Mora Orensanz**  
(September, 2021)  
Public Housing, Private Priorities: The Invisible Dynamics in Low-Income Housing Allocation in Urban Peru, the Case of CSP-Techo Propio (with F. Belli Ferro)

<b>Jordan Victor Owen</b> (See also S.M., Real Estate Development) Data Driven Transit Oriented Development Planning: Using with Montreal's New Transit System as a Case Study	<b>Prathito Andy Wisambodhi</b> (September, 2021) Pushcarts to Platforms: Measuring Food Delivery Apps' Effect on Street Vendors' Location Preferences in the Global South. Case Study: Surakarta, Indonesia	<b>Lily Elizabeth Gabaree</b> (September, 2021) Agency and Community: Supporting Creative Learning in a Global Online Course
<b>Andrey Prigov</b> Making a Neighborhood Illegal: Zoning, Nimbyism, and Housing Justice in Bensonhurst, Brooklyn	<b>Master of Science in Urban Studies and Planning</b> Course XI <i>Department of Urban Studies and Planning</i>	<b>Alice Hong</b> (September, 2021) KnitheWorld: lines_of_code_as_loops_ of_yarn
<b>Maria Camila Ramos Yanez</b> (September, 2021) Understanding Subway Vibrancy in Live- Work-Play: A Case Study from and for Santiago, Chile	<b>Klo'e Yim Chew Ng</b> (September, 2021) Walking to Transit - Using Big Data to Analyze Bus and Train Ridership in Los Angeles.	<b>Xi Hua</b> (February, 2022) Plantable Maps
<b>Tyler Luis Rivera</b> "No One Washes a Rental Car": Parsing Contested Narratives of Worker Ownership in the Massachusetts Cooperative Economy	<b>Master of Science in Media Arts and Sciences</b> <i>Program in Media Arts and Sciences</i>	<b>Aaron M. Jaeger</b> (September, 2021) Design of an Automated Fiber Placement Machine to Build Prosthetic Sockets
<b>Anna Maureen Schuessler</b> The Unintended Inevitable: How Housing Fell through the Cracks in Venice Beach's Transition to Community Planning, and What It Might Take to Build an Imagination for the Future	<b>Mariah J. Avila</b> (September, 2021) Methods for CRISPR Cas12a Multiplexing in Mammalian Systems	<b>Wonjune Kang</b> Speaker Anonymization using End-to- End Zero-Shot Voice Conversion
<b>Kevin Kaiwen Shi</b> Resilience and Its Discontents: Risk, Temporality, and a Climate Change Crisis	<b>Guadalupe Babío Fernández</b> (September, 2021) Nuclear, A Climate Opportunity	<b>Zhipeng Liang</b> (September, 2021) Membrane I/O : Designing Bits and Atoms for Tangible Telepresence
<b>Stephanie Julia Silva</b> Down Then Out: Basement Apartments and Housing Insecurity in the Face of Flood Risks	<b>Ayush Chopra</b> Decision Making for Populations	<b>Hannah R. Lienhard</b> (September, 2021) Squishy Music Toys: Creating a Less Stressful, More Pliable Way to Enter the Music World
<b>Asher Harrison Burk Simon</b> The War on Who? An Analysis of Drug Possession Arrests in Four U.S. Cities	<b>Justin Browning Christensen</b> (September, 2021) Distributed Displays for Discrete Integrated Circuit Electronics	<b>Fangzheng Liu</b> (September, 2021) LunarWSN: A Wireless Sensor Network for In-Situ Lunar Water Ice Detection
<b>Christian Joseph Eugene Turner</b> (February, 2022) People-Centered Planning: A Case Study in Virtual Participatory Design with Chicago Residents	<b>Daniella E. DiPaola</b> (September, 2021) Children as Spectators, Actors, and Producers: Understanding the Impact of Knowledge and Agency on Child-Robot Relationships	<b>Nina M. Lutz</b> (September, 2021) A Counting for Silence
<b>Matias Williams</b> (September, 2021) Measuring the COVID-19 Shock from Outer Space: Local Economic Vibrancy in 15 Global Cities	<b>Jack Anderson Forman</b> (September, 2021) DefeXtiles: 3D Printed Quasi-Woven Textiles via Underextrusion	<b>Christina Isabella Zeilberger Meyer</b> (September, 2021) Design and Efficacy of a Variable Thickness Transtibial Prosthetic Liner
	<b>Zachary Peter Fredin</b> (September, 2021) Assembling Integrated Electronics	<b>Manaswi Mishra</b> (September, 2021) Living, Singing A.I. : An Evolving, Intelligent, Scalable Composition System
		<b>Aarón Montoya-Moraga</b> (September, 2021) Tiny Trainable Instruments

**Caitlin Anne Morris**  
(February, 2022)  
Exploring The Impact of Simulated Transfer of Sensory Experience on Social Behavior and Empathy

**Alfonso Parra Rubio**  
(September, 2021)  
Discrete Cellular Continuum Robots

**Gaurav Rajaram Patekar**  
(September, 2021)  
Feeling Climate Crisis

**Eyal Perry**  
(September, 2021)  
DNA Canvas: Towards Affordable and Scalable Enzymatic Fabrication of DNA Nanoarrays

**Venkata Subhash Chandra Sadhu**  
(September, 2021)  
Physics and Algorithms in Time of Flight Based Computational Imaging

**Aruna Sankaranarayanan**  
(September, 2021)  
Interactivity and Authenticity in AI Augmented Videos

**Karsten Schuhl**  
(September, 2021)  
Superpose - A Connected Experience of Sound and Space

**Aubrey Elizabeth Simonson**  
(September, 2021)  
An Integrated System for Interaction in Virtual Environments

**Soumya Pratap Tripathy**  
(September, 2021)  
Sub-Picomolar Detection of SARS-CoV-2 RBD via Computationally-Optimized Peptide Beacons

**Anika Nawar Ullah**  
(September, 2021)  
Community Guided Gene Drive Development :: Architecting Action Towards Transcultural Health and Ecological Justice

**Shubham Yadav**  
(September, 2021)  
Self-Standing Sub-Cellular Sized Photovoltaic Devices for Minimally-Invasive and Precise Neuronal Stimulation

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

**James Griffin Geoghegan**  
The Institutionalization of the American Dream  
**Ji Ye Ha**  
(See also M. Arch., Course IV)  
Co-Working in Seoul: Integrating Public Infrastructure into the Metaverse

**Derek James Hansen**  
(February, 2022)  
Overcoming Obsolescence: A Roadmap for Redeveloping Massachusetts Gas Station Real Estate in a Post-Gasoline World

**Fan He**  
(September, 2021)  
Application of the Fama - French Model to Singapore REITs (with K.T. Neo)

**Kok Tong Neo**  
(September, 2021)  
Application of the Fama-French Model to Singapore REITs (with F. He)

**Teo P. Nicolais**  
Investment Performance of Small Multi-Family Properties

**Jordan Victor Owen**  
(See also M.C.P., Course XI)  
Data Driven Transit Oriented Development Planning: Using with Montreal's New Transit System as a Case Study

**Cassie Ann Raazi**  
(February, 2022)  
(See also S.M., Engineering and Management)  
The Value of Flexibility in Lease Duration

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

**Lauren Camron Blackburn**  
Med. Arts & Sciences  
(September, 2021)  
Superconducting Asynchronous Logic for Ultra-low Power High Performance Computing

**Allan dos Santos Costa**  
Med. Arts & Sciences  
(September, 2021)  
Distillation of Protein Language Models for Protein Structure Prediction

**Daniel Augusto Marquez**  
Med. Arts & Sciences  
(September, 2021)  
An Attempt at Democratizing Resource Allocation for Social Movements Using Decentralized Autonomous Organizations

**Andrés Rico Medina**  
Med. Arts & Sciences  
Socio-Environmental Sensor Networks for Community Sensing

# SCHWARZMAN COLLEGE OF COMPUTING

## Master of Science in Computational Science and Engineering

*Program in Computational Science  
and Engineering*

**Sarah Abdulaziz Alnegheimish**

(See also S.M., Course VI)

Orion: A Machine Learning Framework  
for Unsupervised Time Series Anomaly  
Detection

**Abdullah Omar M Alomar**

(September, 2021)

(See also S.M., Course VI)

Multivariate Singular Spectrum Analysis:  
A Principled, Practical, and Performant  
Solution for Time Series Imputation and  
Forecasting

**Manmeet Singh Bhabra**

(September, 2021)

(See also S.M., Course II)

Harvest-Time Optimal Path Planning in  
Dynamic Flows

**Aimee Elizabeth Maurais**

Multifidelity Covariance Estimation  
Three Ways

**Benjamin James Yu**

A Genetic Algorithm Framework using  
Variable Length Chromosomes for  
Vehicle Maneuver Planning

## Master of Science in Technology and Policy

*Institute for Data, Systems, &  
Society*

**Ilham K. Ali**

Sustainable for All? How Satellite Remote  
Sensing Contributes to Sustainable  
Development in Africa and International  
Climate Policy

**Lama Sara Aoudi**

(February, 2022)

(See also S.M., Course VI)

An Open-Source Computational  
Framework for the Scalable Application  
of Electrification Planning

**William Ayres Atkinson**

Quantifying a Range of Global Air  
Pollution Projections and Health Impacts  
under the Paris Agreement's Temperature  
Targets

**Abhishek Bose**

(September, 2021)

Role of Hydrogen in Multi-Sector  
Decarbonization

**Helena Rose Caswell**

Win-Win-Win? Evaluating the Climate,  
Health, and Equity Benefits of  
Retrofitting Low Income Housing in the  
US

**Axelle Clochard**

(February, 2022)

(See also S.M., Course VI)

Using Network Analysis of Job  
Transitions to Inform Career Advice

**Jared Matthew Cochrane**

Simulating an Optical Neural Network  
for Deep Learning in Edge Computing

**Pedro de Vasconcellos Oporto**

Pathways for Investor Climate Action:  
Trade-offs and Synergies under the  
Banner of Net Zero

**Tristan Downing**

(September, 2021)

Modeling Supply Chains and Markets  
to Support Humanitarian Response  
Analysis

**Farri Gaba**

(See also S.M., Course VI)

Solutions to the Generalized UAV  
Delivery Routing Problem for Last-Mile  
Delivery with Societal Constraints

**Nicolas Elie Guetta-Jeanrenaud**

(February, 2022)

Social Media Data for Policy Decision  
Making

**Jisoo Hong**

A Thesis, Allegedly

**Jessica Ingabire**

What Makes Your Business a Winner:  
Empirical Analysis Using the Department  
of Defense Contracts with Small  
Manufacturing Firms

**Teuku Mahfuzh Aufar Kari**

(September, 2021)

Causal Impact of Information Crowd-  
Sourcing Platform on Farmer Welfare

**Helen Landwehr**

(See also S.M., Course XVII)

Analyzing the Usability of Natural  
Language Processing for Detecting  
Disinformation Tactics, Techniques, and  
Procedures

**Jacqueline Paige Lee**

Examining the Post-Pandemic Role of  
Shared Micromobility: A Study of Travel  
Behavior, Policy, and Equity in Motion

**Tony Lanson Lee**

Implications of Heating Electrification on  
Distribution Networks and Distributed  
Energy Resources

**Boyu Liu**

(February, 2022)

(See also S.M., Course VI)

Improving Labor Market to Reduce  
Labor Abuse in South East Asia

**Jameson Randall McBride**

Clean Heat at What Cost? Economic  
Optimization of Residential Space  
Heating in Massachusetts

**Molly Katherine McGuigan**

Simulating PPE Use in Acute Care  
Hospitals

**Patrick Stephen Meredith-Karam**

(September, 2021)

(See also S.M., Transportation)

Exogenous Drivers of Public Transit  
and Ride-Hailing Ridership: a Study of  
Policy Intervention, COVID-19, and the  
Relationship between Ride-Hailing and  
Public Transit in Chicago.

**John Francis Morris**

Retrofit Solutions to Electric Power  
Sector Decarbonization in the American  
Midwest

**Saba Nejad**

(See also S.M., Course VI)

Data-Driven Analysis of Time of Day

Pricing for Residential Consumers

**Jonathan Garrett Novak**

Policy and Design Courses of Action

to Improve Resilience of Proliferated

Low Earth Orbit Constellations Against

Adverse Solar Weather

**Olivia Peihua Pfeiffer**

(See also S.M., Course VI)

Machine Learning for Strength Prediction

and Optimal Design of Sustainable

Concrete Formulas

**Paul Dawson Picciano**

Beyond Health Co-Benefits: Air Quality-

Related Equity Implications of US

Decarbonization Policy

**Aaron Matthew Schwartz**

(September, 2021)

The Role of Natural Gas in Future Low-

Carbon Energy Systems

**Elwyn Sireyes**

(See also S.M., Course XVI)

Environmental Impact of Space Launches

and Societal Response

**Maya Elizabeth Slavin**

(See also S.M., Course XVI)

Incentivizing Collaboration on

Space Sustainability: Detectability,

Identifiability, and Trackability of Space

Missions

**Rebecca Lauren Spiewak**

Overlooking the Little Guy: An Analysis

of Cyber Incidents and Individual Harms

**Ragini Sreenath**

(February, 2022)

(See also S.M., Course VI)

Transitioning Transit : Modeling the

Electrification of an Intracity Bus System

**Cathy X. Wang**

(September, 2021)

Ensuring Reliability in a Highly

Decarbonized Power System: A Case for

Next-Generation Modeling Tools

## SCHOOL OF ENGINEERING

### Master of Engineering in Civil and Environmental Engineering

Course I-P

*Department of Civil and Environmental Engineering*

**Luke Bastian**

Accuracy of Embodied Carbon Estimation During Early-Stage Structural Design

**Brian William Borman**

Conceptual Structural Design of Core Components for a Horizontal, Compact HTGR

**Emily Pearl Condon**

Characterizing the Influence of Turbulence Intensity on Energy Production at the Vineyard Wind 1 Farm

**Kevin Charles Headrick**

Investigating Root Storage and Exudation in the Brachypodium Genus

**Sarah Ladhani**

Reimagining Urban Highway Overpass Infrastructure in the US: Designing for Spatial Quality and Material Quantity

**Olivia Oey**

Optimization of Cable-Stayed Bridges at the Conceptual Design Stage

**Davis Sebastian Philips**

Shear Wall Layout Optimization in Coordination with Architectural Floor Plans

**Rovi Chung Porter**

(See also S.B., Course I-ENG)  
Wake Characteristics Associated with Logjams to Inform River Restoration

**Alexandra Whitney Steelman**

A Computational Framework for Zero Waste Structural Design

### Master of Science in Civil and Environmental Engineering

Course I

*Department of Civil and Environmental Engineering*

**Kexin Chen**

Analysis of Potential Demand of On-Demand Urban Air Mobility via Agent-Based Simulation

**Michelle Angela Feole**

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

Optimizing the Supply Chain Design for Sourcing and Supply of Critical Materials

**Alexandra Hardin**

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

Supply Chain Sustainability Opportunities in the Utility Industry

**Drew Meyers**

(February, 2022)

The Development and Deployment of Sensors and Algorithms for the Mobile Monitoring of Urban Surface Water Quality

**Alexander Ray Muller**

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

Leveraging Analytics for Improved Supply Chain Operations

**Mariko Ogawa**

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

Building a Carbon Allocation Methodology across Multiple Business Teams and Activities with Interdependencies

**Randall Alan Pietersen**

Automated Method for Airfield Pavement Condition Index Determination

**Lauren M. Sakerka**

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

Evaluating Strategies for Wide Scale Replacement of Human Inspection with Machine Vision

**Kunal Manoj Sanghani**

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

Advanced Functionality of Digital Mining Predictive Analytics & Insights Platform

**Lampros Tsontzos**

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

Dynamic Algorithm for Target Inventory and the Impact on Replenishment Strategy

**Elli Danae Vartziotis**

Inundation Flooding in Urban Environments using on-lattice Density Functional Theory

**Tina Nepheli Vartziotis**

Calibration of interaction Potentials for Molecular Dynamics-inspired Simulations of Structures: the Role of Dihedral Interactions.

### Master of Engineering in Advanced Manufacturing and Design

Course II-P

*Department of Mechanical Engineering*

**Amélie Féron**

(September, 2021)

Improving Management Strategies for Reduced Freight Costs

**Jonathan Michael Williams**

(February, 2022)

Incorporation of Carbon Nanoparticles in Polyaryletherketone Matrices for High Performance Liquid Chromatography Applications

**Jiayue Zhao**

(February, 2022)

Improved Management Practice for Freight Savings

### Master of Science in Mechanical Engineering

Course II

*Department of Mechanical Engineering*

**Jennifer Marie Amlani**

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

Equipment Installation Quality Improvement

**April Marie Anlage**

(September, 2021)

Relationships between Class Engagement, Community, and Engineering Design Self-Efficacy in Remote, Kit-Based Classes

<b>Austin Forrest Anthis III</b> (September, 2021) Six-Axis Levitated Stage with a Novel Flux-Steering Magnetic Hub Actuator	<b>Rishabh Datta</b> (February, 2022) Laboratory Experiments of High-Energy-Density Shocks in Magnetized Collisional Plasma Flows	<b>Ivan Dmitrievich Goryachev</b> (September, 2021) Kiosks for Non-Contact Vital Sign Detection
<b>Jonathan Tae-Yoon Bessette</b> Simple, Sustainable, Water Straight from the Sun - Batteryless Electrodialysis Desalination	<b>Austin C. de Maillé</b> (See also M.B.A., Course XV) Operations Strategy for the Mass Customization of Additively Manufactured Anatomical Models, Surgical Guides, and Implants	<b>Megan Jené Hagen</b> (See also Naval E., Course II) Feasibility Analysis for a Nuclear-Powered Commercial Merchant Ship
<b>Manmeet Singh Bhabra</b> (September, 2021) (See also S.M., Comp. Sci. & Eng) Harvest-Time Optimal Path Planning in Dynamic Flows	<b>Runpal Singh Sorensen Dhaliwal</b> (September, 2021) First-Passage Time Analysis of Particle Transport in the Cytoplasm	<b>Gina Han</b> Dimensional Control in Ceramics Printed by Projection Microstereolithography
<b>Gabriel Bradford</b> Accelerating Polymer Electrolyte Discovery with Machine Learning	<b>Jacob Nathaniel Easley</b> Feasibility and Design of Solar-Powered Electrodialysis Systems for Agriculture Applications	<b>Amin Heyrani Nobari</b> Generative Adversarial Networks for Inverse Design Problems in Engineering: Methods to Handle Performance, Constraints, and Creativity Requirements
<b>Gustavo Castillo, Jr.</b> (See also M.B.A., Course XV) Using Electric Vehicles for Grid Services: Capacity Available and Applications for Electric Utility Commercialization	<b>Tyler J. Eggleston</b> (See also M.B.A., Course XV) Capacity Multipliers: Rapidly Scaling Production through Line Balancing and Critical Path Reduction	<b>Luke Richard Higgins</b> (See also M.B.A., Course XV) The Playbook - A Novel Approach to Identifying Opportunity for on Machine Measurement and Adaptive Machining Projects
<b>Bianca Champenois</b> Reconstructing 3D Ocean Temperature Fields from Real-Time Satellite and Buoy Surface Measurements	<b>Michael F. Fernandez</b> A Virtual Muscle Model of the Arm for EMG-Driven Control of Prostheses	<b>Grant Marshall Hosinski</b> (See also M.B.A., Course XV) IoT at Amgen - Evaluating and Piloting Industry 4.0 Technology in Biomanufacturing
<b>George Chunfeng Chen</b> A Data-Driven Approach to System Dynamics Modeling and Control Design	<b>Marie Floryan</b> Fluid Shear Stress Effects on Cancer Metastasis	<b>Dayne Michael Howard</b> (See also Naval E., Course II) Quantifying Extreme Event Statistics for Ship Motions and Loads Using Low-Fidelity Models and Recurrent Neural Networks
<b>Luke Chung-I Chiang</b> (See also M.B.A., Course XV) Framework and Analytics for Emissions Forecasting and Planning	<b>Charlotte Méry Folinus</b> Design and Mechanical Validation of Commercially Viable, Personalized Passive Prosthetic Feet	<b>Yu Huang</b> (See also M.B.A., Course XV) Directed Energy Deposition Additive Manufacturing Supplier Sourcing for Aerospace
<b>Baju Chiyezhath Joy</b> (September, 2021) Miniaturized Magnetostrictive Antennas for Wireless Sensing Applications	<b>Tom Frejowski</b> (September, 2021) Development of Fine Motion Stages for Six Degree-of-Freedom Submicron Positioning	<b>Thomas Guy Hubschman</b> (February, 2022) Assessment of Scaling Rule for Hot Gas Ingestion in Representative Turbine Rim Seal System for Large Industrial Gas Turbines
<b>Christopher Michael Cubra</b> (See also M.B.A., Course XV) Automating Data-Driven Decisions to Improve Key Financial and Operational Metrics in Semiconductor Manufacturing	<b>Amit Galgali</b> (See also M.B.A., Course XV) Prototyping of Injection EVA Foam Footwear Midsoles	<b>Se Hwan Jeon</b> Structuring Optimal Control of Legged Locomotion with Learning-based Methods
<b>Madhurima Das</b> Assessing Early Stage Design Sketches and Reflections on Prototyping	<b>Jack George Alexander Gammack</b> Design Knowledge Base Using Natural Language Processing	

<b>Run Jiang</b> (See also M.B.A., Course XV) Oversized Package Placement Optimization in Warehouses	<b>Healey Ann Montague-Alamin</b> (September, 2021) User Based Design of Medical Devices for Translation from Prototype to Clinical Device	<b>Tae Joong Park</b> (September, 2021) Climate and Air Quality Impacts of Electric Vehicles and Comparison to U.S. Tax Credits
<b>Eric Dean Jorgensen</b> (February, 2022) Structural Optimization of Regeneratively Cooled Rotating Detonation Rocket Engines	<b>Valerie L. Muldoon</b> Scalable Synthesis of Solid-State Electrolytes Using Flame-Assisted Spray Pyrolysis	<b>Natasha Monet Patterson</b> (See also S.M.(N.A.M.E.), Course II) Integration of System Templating into the Rapid Ship Design Environment
<b>Zahra Kanji</b> (See also S.M., Engineering and Management) Classification of Auscultation Sounds Using a Smart System	<b>Thanh Nha Nguyen</b> Development of Wireless Sensor Network to Detect Lameness in Dairy Cows	<b>Elizabeth Marie Barna Pedlow</b> (September, 2021) Ultra-Wideband Error Modeling for Improved Localization
<b>Hunjoo Kim</b> (See also M.B.A., Course XV) Development of Industrial Internet of Things Architecture and Business Strategy for Digital Substation Asset Management	<b>Michael Philip Nitzsche</b> (September, 2021) Molten Alkali Metal Borate/Carbonate Salts for High Temperature CO <sub>2</sub> Capture and Electrochemical Conversion	<b>Tamir Peleg</b> (See also M.B.A., Course XV) Waste Reduction in Amazon Robotics Sortable High Velocity Fulfilment Using Six-Sigma and Product Design Methods
<b>Ava A. LaRocca</b> Design and Performance of a Highly Mobile, Climbing, Wheeled, Soft-Bodied Robot	<b>Sean Martin O'Donnell</b> (See also M.B.A., Course XV) Automotive Inventory Delivery Location Optimization	<b>Alexander I. Peraire-Bueno</b> (February, 2022) A Damped Double Dipole UHF RFID Antenna with Application to Wireless Chemiresistive Gas Sensing
<b>Duncan Ru Chieh Lee</b> Design and Clinical Evaluation of a Digital Transtibial Prosthetic Interface	<b>Scott David Oberst</b> (See also Naval E., Course II) Investigation into the Design of High-Power Plug-In Shipboard Electrical Connectors	<b>Heidi Victoria Peterson</b> (September, 2021) Design of a Novel Mechatronic System to Test Prosthetic Feet Under Specific Walking Activity Loads and Evaluate Their Lower Leg Trajectory Error
<b>Allison Lenhard</b> Smooth Flow Control for On-Chip Pneumatic Micropumps	<b>Ellen B. O'Connell</b> (September, 2021) Method for Continuous Inspection of Product Weight During Lyophilization	<b>Devin Wayne Quinn</b> Shipboard Fault Detection Methods for Condition-Based Maintenance
<b>Joshua James Malone</b> (See also Naval E., Course II) The Impact of Electrical Standards on MVDC Shipboard Cable Size	<b>Nicholas Ryan Page</b> (See also M.B.A., Course XV) Enabling Growth in a Middle-Market Job Shop Environment	<b>Felipe Quintella Correia</b> (See also M.B.A., Course XV) Optimizing Demand Re-Allocation under Fixed Capacity Commitments
<b>James Christopher McRae</b> Development of an Ingestible Fluid Wicking Gastric Electrical Stimulation Platform for Hormone Modulation	<b>Simo Pajovic</b> (September, 2021) Nonreciprocal and Exotic Radiative Transfer in Type-I Magnetic Weyl Semimetals	<b>Lyle Regenwetter</b> Data-Driven Bicycle Design using Performance-Aware Deep Generative Models
<b>Andreas P. Mentzelopoulos</b> Learning Hydrodynamic Coefficient Databases for Vortex Induced Vibration Prediction of Marine Risers Using Sparse Sensor Measurements	<b>Subeen Pang</b> (September, 2021) Machine Learning Regularized Solution of the Lippmann-Schwinger Equation	<b>Ivan Andres Reyes</b> (See also S.M.(N.A.M.E.), Course II) Design and Modeling of the Navy Integrated Power and Energy Corridor Cooling System
<b>Andrew William Moeller</b> (See also S.M.(N.A.M.E.), Course II) Extracting Electromechanical Signals for Icebreaker Insights	<b>Sanghyun Park</b> Bioresorbable Osmotic Pump for Long-Term Contraception	

**Christopher Matthew Antonio Reynolds**  
(See also Naval E., Course II)  
Relationship of Mechanical Deformations and Electrochemical Properties of Lithium Ion Batteries-An Experimental Study

**Simon Béat Rufer**  
Technoeconomic Analysis and Design of CO<sub>2</sub> Capture and Conversion Systems

**Dionyios Sema**  
Predicting Material Properties with Machine-Learned Interatomic Potentials

**Julie Shen**  
A Novel Trajectory Vector Approach for Characterizing Dynamic Changes in the Performance-Load Representation of Cardiac State

**Ben Andrew Sidell**  
(See also M.B.A., Course XV)  
Advancing Replenishment Efficiency Utilizing Unit of Measure and Planogram Settings

**Kurran Singh**  
Active Simultaneous Localization and Mapping in Perceptually Aliased Underwater Environments

**Stephanie Hope Smolinski**  
(See also M.B.A., Course XV)  
Effects of Standardization in a Developing Manufacturing Environment

**Rika Sugimoto Dimitrova**  
Towards Perturbation-free Identification of Human Standing Balance

**Neha Sunil**  
(September, 2021)  
Deformable Object Manipulation with a Tactile Reactive Gripper

**Hannah Jacqueline Szapary**  
Mechanical and Biologic Impact of Cyclic Loading on Bovine and Human Models of Osteoarthritis

**Lisa Tang**  
An Evaluation of Household Energy Systems in the Himalayan Region

**Christopher R. Tomlinson**  
(See also S.M.(N.A.M.E.), Course II)  
Design of Securing Mechanism for Power Converter in Navy Integrated Power and Energy Corridor

**Andrew Christopher Tresansky**  
(See also M.B.A., Course XV)  
Assessment and Operationalization of Automation in Final Product Manufacturing

**Pranav Vangala**  
(See also M.B.A., Course XV)  
Operations Strategy for Evolving Customer Profiles

**Kelli Michelle Waterman**  
(See also Naval E., Course II)  
Microchannel Thermal Management Analysis and Simulation Tool for Integration into Electronic Component Design

**Dakota Lee Wenberg**  
(September, 2021)  
Method for Kalman Filtering Pose Estimates from LIDAR Scans During the Landing Phase

**James Han Zhang**  
(September, 2021)  
Electrolyte Structure with Explicit Solvent in Nanoslit Capacitors Using Classical Density Functional Theory

**John Zhongyuan Zhang**  
(September, 2021)  
An Intracochlear Hydrophone and Amplifier

**Xinlin Zhong**  
Developing a Data-Driven Digital Twin Model for Lubricant Oil Transport and Oil Consumption Study in Internal Combustion Engines

**Yang Zhong**  
(September, 2021)  
(See also S.M., Course VI)  
Understanding and Characterizing Thermal Transport in 2D van der Waals Nanoelectronics

**Lara Zlokapa**  
An Integrated Design Pipeline for Tactile Sensing Robotic Manipulators

## **Master of Science in Naval Architecture and Marine Engineering**

Course II  
*Department of Mechanical Engineering*

**David Elatov**  
(February, 2022)  
(See also S.M.(Ocean Eng.), Course II)  
Radiated Noise Assessment of Shipboard Systems Using Vibration Analysis

**Anthony C. Kriezis**  
Ship Power Prediction Using Machine Learning

**Andrew William Moeller**  
(See also S.M., Course II)  
Extracting Electromechanical Signals for Icebreaker Insights

**Natasha Monet Patterson**  
(See also S.M., Course II)  
Integration of System Templating into the Rapid Ship Design Environment

**Ivan Andres Reyes**  
(See also S.M., Course II)  
Design and Modeling of the Navy Integrated Power and Energy Corridor Cooling System

**Christopher R. Tomlinson**  
(See also S.M., Course II)  
Design of Securing Mechanism for Power Converter in Navy Integrated Power and Energy Corridor

## **Master of Science in Ocean Engineering**

Course II  
*Department of Mechanical Engineering*

**Clara Elisabeth Green Berry Sage Dahl-Baue**  
Time-Optimal Path Planning in the Portugal-Azores-Madeira Ocean Region

**David Elatov**  
(February, 2022)  
(See also S.M.(N.A.M.E.), Course II)  
Radiated Noise Assessment of Shipboard Systems Using Vibration Analysis

**Nikolai Gershfeld**  
Adaptive Collaborative Channel Finding  
Approaches for Autonomous Marine  
Vehicles

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

**Andres F. Badel**  
Low-Cost Electrochemical Approaches to  
Deep-Decarbonization

**Brooks Todd Clingman**  
Sodium-Ion Battery Cathode Active  
Material Cost Drivers and Manufacturing  
Scale-Up Barriers

**Qiaohao Liang**  
(September, 2021)  
Benchmarking the Performance of  
Bayesian Optimization across Multiple  
Experimental Materials Science Domains

**Gillian Kay Micale**  
Integrated Photonic Spectroscopy

**Changhwan Oh**  
Investigating Dislocation Behavior in  
High Entropy Alloys Using Atomistic  
Simulations

**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*

**Marwa Abdulhai**  
(September, 2021)  
Factored State Abstraction for Option  
Learning

**Anisha Agarwal**  
Text-Free Audio Captions of Short Videos  
from Latent Space Representation

**Vibha Agarwal**  
(September, 2021)  
Image Registration and Bias Evaluation  
for a COVID-19 Pulmonary X-Ray  
Severity (PXS) Score Prediction  
Algorithm

**Elaheh Ahmadi**  
(September, 2021)  
Hyperparameter Optimization for  
Opaque Models

**Yodahe Kinsew Alemu**  
Entwine VR: A Toolkit for Creating  
Behavioral Experiments that Utilize  
Virtual Reality

**Christian Omar Altamirano Modesto**  
(September, 2021)  
Formal Verification of an Implementation  
of the Roughtime Server

**Md Sanzeed Anwar**  
(September, 2021)  
Seeding with Time Constrained Queries

**Julia Marshall Arnold**  
(See also S.B., Course VI-1)  
Ground Station Mixed-Signal PCB and  
SFP Ethernet-to-Optical Connector for the  
Deployable Optical Receiver Aperture  
(DORA) CubeSat

**Fadi Atieh**  
(February, 2022)  
A Novel Statistical Procedure Towards  
the Discovery of the Higgs Boson

**Amadou Yaye Bah**  
Electromagnetic Printhead Core for  
Programming Magnetic Pixels

**Cole S. Baker**  
Hyperbolic Graph Embedding of  
Magnetoencephalography Brain  
Networks to Study Brain Alterations  
in Patients with Subjective Cognitive  
Decline

**Avital Baral**  
(February, 2022)  
Continuous Measured Improvement: A  
New Approach to Meeting the Municipal  
Cybersecurity Challenge

**David A. Bau IV**  
Interactions Between Syntax and  
Semantics in Language Models

**Scott C. Becker**  
(See also S.B., Course XVIII)  
Analyzing a Computer's Ability to  
Monitor Data Provenance Events

**Abigail C. Bertics**  
(February, 2022)  
How Linguistic Exposure Modulates  
the Acceptability of Long-Distance  
Dependencies

**Jack Bouhanna**  
Comparative Analysis of an Armenian  
Hymn Through Digital Signal Processing  
and Music Information Retrieval

**Terryn Diane Brunelle**  
(See also S.B., Course VI-3)  
Parallelizing Tree Traversals for Binomial  
Option Pricing

**Katarina M. Bulovic**  
Designing for Tinkerability for  
Accessibility

**Ruidi Cao**  
Local Algorithms for Sparsification of  
Average-Case Graphs

**Grace C. Cassidy**  
(February, 2022)  
Advancing the Performance of a  
Switched-Mode Radio Frequency Power  
Generation Architecture

**Rishabh Chandra**  
(September, 2021)  
Relating Racial Disparities to Financial  
Concerns and Shared Decision Making in  
Opioid Prescriptions

**Rhian A. Chavez**  
(February, 2022)  
Design of a Precision, Very Low 1/f  
Noise, Low Power, Rail-Rail I/O,  
Integrated Bi-CMOS Operational  
Amplifier

**Eric R. Chen**  
(September, 2021)  
Understanding Exploration in  
Reinforcement Learning

**Emily S. Cheng**  
(February, 2022)  
Understanding Symbolic Communication  
in Humans and Robots

**Katherine Y. Cheng**  
(See also S.B., Course VI-3)  
Frame Field Guided Hexahedral Meshing

**Leon Cheng**  
(September, 2021)  
Coordinated Planning and Visualization  
for an Electromagnetically Actuated  
Reconfigurable Robot

**Lok Hin Cheng**  
(February, 2022)  
Digital Control for Dynamic Efficiency  
Optimization in Switching Regulators

**Christopher W. Cheung**  
(February, 2022)  
Augmented Reality-Based Interactive  
Game-Editing Interfaces

**Caroline M. Chin**  
(September, 2021)  
How Do Pretrial Judges Respond to  
Election Cycles?

**Samuel B. Chinnery**  
TCAD-Informed Surrogate Models for  
Semiconductor Devices

**Erica J. Chiu**  
Uniform Sampling over Level Sets

**Jeana Choi**  
(February, 2022)  
Automatic, Careful Online Packing  
of Groceries Using a Soft Robotic  
Manipulator and Multimodal Sensing

**Isabelle Paris Chong**  
Ally: Designing Interfaces for Human +  
AI Collaborative Creativity for Computer  
Aided Design (CAD) Applications

**Cecelia C. Chu**  
(February, 2022)  
PowerML: Loop Gain Identification  
for DC-DC Converters from Load Step  
Transient

**Spencer Compton**  
(See also S.B., Course VI-3)  
Information-Theoretic Algorithms  
and Identifiability for Causal Graph  
Discovery

**Van R. Coykendall**  
(February, 2022)  
Scene Text Localization and Recognition  
for Images of Serial Numbers and  
Odometer Readings

**Ria A. Das**  
Combining Functional and Automata  
Synthesis to Learn Causal Reactive  
Programs

**Alexander Dimitrakakis**  
(September, 2021)  
Refinement of the Computational Vaccine  
Optimization Framework (OptiVax)  
through the Development and Analysis  
of a Better Algorithm for Vaccine Design  
Choice

**Dylan D. Doblar**  
(February, 2022)  
Meta-learning and Enforcing Useful  
Conservation Laws in Sequential  
Prediction Problems

**Samuel Joseph Dorchuck**  
(September, 2021)  
Goal-Directed Systems Testing:  
Automated Execution of Intelligently  
Generated Cyber Attack Plans

**Robert Benjamin Durfee**  
Enabling True Concurrency in  
Architectures for Speculative Execution  
of Ordered Irregular Parallelism

**Ramya A. Durvasula**  
(February, 2022)  
Interactive User Interface for SQL Code  
Generation from Natural Language

**Ahmed Nimir Elbashir**  
Improving Police and Criminal Court  
Data Transparency in the United States: A  
Case Study

**Jonathan E. Esteban**  
(February, 2022)  
Simulating Network Lateral Movements  
through the CyberBattleSim Web  
Platform

**Andrés Fábrega Gerbaud**  
Voter Registration: A Security and  
Cryptography Perspective

**Violet Celeste Felt**  
(See also S.B., Course VI-3)  
Machine Learning Models for On-  
Orbit Detection of Temperature and  
Chlorophyll Ocean Fronts

**Julia M. Fiksinski**  
(September, 2021)  
Practica: A Music Education Application  
for Learning Jazz Improvisation

**Suyash Pradeep Fulay**  
(February, 2022)  
Creating and Interpreting a Cultural  
Landscape on Twitter to Understand  
People and Audiences

**Joanna J. Gerr**  
The Comic Artist's Tools Suite:  
Centralized and Intuitive Non-  
Photorealistic Computer Graphics  
Renderings

**Yianni Giannaris**  
(September, 2021)  
Securing Operating Systems  
Using Hardware-Enforced  
Compartmentalization

**Charvi Gopal**  
Network Visualization and Anomaly  
Detection in International Timber Trade  
Flows

**Darnell S. Granberry, Jr.**  
(February, 2022)  
Deep Neural Networks for Learning  
Protein Vibrational Behaviors to  
Characterize Structure and Function

**Zackary J. Gromko**  
Accelerated Channel Operating Margin  
and Applications to Design Optimization

**Joshua A. Gruenstein**  
(September, 2021)  
Residual Model Learning for Microrobot  
Control

**Alexander F. Gu**  
Generating Code Skeletons from Natural  
Language

**Deepankar Gupta**  
(February, 2022)  
Interpretable Machine Learning Methods  
for Landslide Analysis

<b>Jeanne L. Harabedian</b> Modeling the Arterial System to Improve Ultrasound Methods for a Non-Invasive Blood Pressure Measurement	<b>Henry Hu</b> Transforming Dependency Parses into Ternary Expressions for Enhanced Indexing and Matching	<b>Satvat Jagwani</b> (September, 2021) Map Inference from Satellite Segmentation Data through Reinforcement Learning: A Novel Approach
<b>Elizabeth M. Harkavy</b> (February, 2022) Accesssible AI That's Out of This World: Globalizing AI Literacy through Problem-Based Learning and Deep Learning Models in a Low Code Environment	<b>Stephanie M. Hu</b> (September, 2021) A Recurrent Network Approach to G-Computation for Sepsis Outcome Prediction Under Dynamic Treatment Regimes	<b>Kriti Jain</b> Federated Learning for Resource Constrained Devices
<b>Peter Kimball Hart</b> (February, 2022) Comparative Study of Computer Vision Methods for Infant Gaze Detection	<b>Ivy Y. Huang</b> (February, 2022) Synthesizing Tabular Time Series Data Using Transformers	<b>Eric Jiang</b> Automating the Generation of Attack Trees and Improvements to the Attack Planner
<b>Emmanuel Havugimana</b> (September, 2021) Augmenting Data for Urban Metabolism of Cities Tool Using Machine Learning and Satellite Image Analysis of City	<b>Vivian Huang</b> (February, 2022) Warm-Starting Networks for Sample-Efficient Continuous Adaptation to Parameter Perturbations in Multi-Agent Reinforcement Learning	<b>Stacia Edina Johanna</b> Generating Coding Exercises for Language Concepts by Searching, Simplifying, and Annotating Existing Code
<b>Alex Herrera</b> Spatial Optimization of an Existing, Low-Cost, Sensor Network for Air Pollution in London	<b>Saadiyah B. Husnoo</b> (September, 2021) A Scalable Server Platform and API Design for Real-Time Health Monitoring and Diagnostics	<b>Brandon V. John</b> Algorithm-Agnostic System for Measuring Susceptibility of Cryptographic Accelerators to Power Side Channel Attacks
<b>Luis Fernando Herrera Arias</b> (September, 2021) An Experimental Evaluation of Learning-Based Methods for Loop Closure Detection in Simultaneous Localization and Mapping	<b>Nada Hussein</b> (September, 2021) Machine Audition Curriculum and Real-Time Music Accompaniment	<b>Jaeyoung Jung</b> Low-Power Communication Circuits for Net-Zero-Energy IoT Nodes
<b>Nancy Yahel Hidalgo</b> (February, 2022) A Basic Isolated Half-Bridge Silicon Carbide Gate Driver for Electric and Hybrid Electric Vehicles	<b>Yow Shuan Hwang</b> Identifying, Characterizing, and Mitigating Wind and Solar Resource Shortages Across the Continental United States	<b>Luann C. Jung</b> (See also S.B., Course VI-3) Gradient Subgroup Scanning for Distributionally and Outlier Robust Models
<b>Adeline F. Hillier</b> (See also S.B., Course VI-2) Supervised Calibration of Ocean Boundary Layer Parameterizations	<b>Spencer David Hylen</b> Primary Market Dynamic Pricing for Sports Tickets: Theory and Application	<b>Violetta Jusiega</b> Designing a User Interface for Counterfactual Simulations of Adaptive Treatment Strategies
<b>Chessa N. Hoekstra</b> (September, 2021) Learning from Experience: Interactive and Ethical Curricula for Teaching Reinforcement Learning	<b>Andrea Jessica David Jaba</b> Random Sequential Encoders for Private Learning in NLP	<b>Patrick D. Kao</b> (See also S.B., Course VI-3) Robust Flight Navigation with Liquid Neural Networks
<b>Amanda Elisabeth Horne</b> (See also S.B., Course VI-2) Optimizing Memory-Corruption Security Defenses for Real-Time Systems	<b>Finnian P. Jacobson-Schulte</b> A First Step Towards Understanding Sperm Whale Communication and Behavior	<b>Arpan Kaphe</b> An Intent-based Neural Monte Carlo Tree Search Framework for Synthesis of Printed Circuit Boards
		<b>Shreyas Kapur</b> Human-Level Learning in Novel Environments

<b>Mihir Prasad Khambete</b> Development and Evaluation of Generative Adversarial Networks for Predicting Central Hemodynamics	<b>Wanlin Li</b> (See also S.B., Course XVIII) Contention Bounds for Locking Computations	<b>Haokuan Luo</b> (February, 2022) Increasing the Success Rate for Indoor Object Navigation by Accurate Object Detection and Efficient Exploration
<b>Evan M. Kim</b> Towards Data-Driven Cognitive Disease Classification Using Machine Learning and the Digital Symbol Digit Test	<b>Yanlin Li</b> Building a Cross-Platform Bridging Library for Native Mobile SDKs	<b>Rami Manna</b> (September, 2021) Constructing Low Resource Approaches to Improve Speech-to-text Translation from Modern Standard Arabic to English
<b>Hyunji Kim</b> (See also S.B., Course VI-3) Safe Exploration for Dynamic Computer Systems Optimization	<b>Yunxing Liao</b> Dataset Deduplication with Datamodels	<b>Christopher G. Mauck</b> (February, 2022) Impact of Covid Pandemic on Student Participation in Intro CS MOOC
<b>Yo-whan Kim</b> (See also S.B., Course VI-3) How Transferable are Video Representations Based on Synthetic Data?	<b>Gloria Zhi-Xian Lin</b> (February, 2022) (See also S.B., Course VI-3) Bayesian Active Structure Learning for Gaussian Process Probabilistic Programs	<b>Jacob T. McGuire</b> (See also S.B., Course VI-2) Hybrid Computational Framework for Real Time Foliage-Penetrating Geiger Mode LiDAR Data Processing
<b>Silvia Elena Knappe</b> Sensing String Displacement as a Control Modality: Sensor Design and Implementation	<b>Kun Lin</b> (September, 2021) Learning to Ground Multi-Agent Communication with Autoencoders	<b>Lingjie Mei</b> Falcon: Fast Visual Concept Learning by Integrating Images, Linguistic Descriptions, and Conceptual Relations
<b>Vedaant P. Kukadia</b> (September, 2021) The Development and Deployment of Mobile Apps and Server Platform for Real-World Screening of Pulmonary and Cardiovascular Disease in Low-Resource Areas	<b>Xin Yu Lin</b> (See also S.B., Course VI-2) Measuring Image Difficulty Under Limited Presentation Time: Towards Building Better Test Sets for Object Recognition	<b>Enrico J. Micali</b> (February, 2022) Optimal Reinforcement Learning with Black Holes
<b>Madison Kimberly Landry</b> (February, 2022) Benefits of Branches in Sparsely Connected Networks	<b>Emily Liu</b> (September, 2021) A Metastudy of Algorithm Lower Bounds	<b>Mubarik M. Mohamoud</b> Software and Hardware Infrastructure for Visual Inertial Navigation
<b>Maximillian S. Langenkamp</b> How Open Source Machine Learning Software Shapes AI	<b>Emma J. Liu</b> (See also S.B., Course VI-3) Self-Training and Calibration for Learning with Limited Data	<b>Tammam Mustafa</b> Parallel and Distributed Just-in-Time Shell Script Compilation
<b>Dylan Robert Lewis</b> Towards Automated Assessment of Crowdsourced Crisis Reporting for Enhanced Crisis Awareness and Response	<b>Renbin Liu</b> Real-Time Social Media Content Recommendation for Live Sports Events	<b>Bhavik V. Nagda</b> (September, 2021) CHuff: Conditional Huffman String Compression
<b>David Daiyun Li</b> (February, 2022) Agent-Based Approach to Simulating Mobility as a Service	<b>Sabrina Liu</b> Generating Gaseous Emboli Mimics in an ECMO Flow Phantom	<b>Mostafa H. Negm</b> (September, 2021) Current Shuttling Cell Voltage Balancer: Design, Evaluation, and Modeling
<b>Tingyu Li</b> Modeling Income Segregation and Accessibility Using Large-Scale Mobility Data	<b>Kerri Lu</b> (See also S.B., Course VI-2) Learning Boiling Properties of Materials	<b>Susan Ni</b> (September, 2021) Hardware Implementation of a Complete Vision-Based Navigation Pipeline
	<b>Mindren D. Lu</b> (See also S.B., Course VI-3) Enhanced Potts Models for Improved Computational Protein Design	

<b>Sara Katherine Nicholas</b> Long Term Policy Goals Under Electoral Competition Given Varied Temporal Discount Rates Among Voters	<b>Fjona Parllaku</b> Longitudinal Biomarkers for Onset Dementia Diagnosis: The Case of Emotion and bvFTD	<b>Jacob W. Pritzker</b> (February, 2022) Transmit Precoder Design for Dual-Function Radar-Communication Systems
<b>Maya Katherine Nielan</b> Quantifying Exertion for American Football Linemen via Force, Acceleration, and Heart Rate Measurements	<b>Shwetark Patel</b> Non-Interactive Cross Chain Atomic Swaps & Transformable Discreet Log Contracts	<b>Sai Sameer Pusapaty</b> (February, 2022) Combining Task Parallelism and Multithreaded Concurrency
<b>Caleb B. Noble</b> Automated Assessment of Environment Diagrams	<b>Yixuan Pei</b> (September, 2021) Language Grounding: Probing and Augmenting Transformers for Procedural Text Comprehension	<b>Eric Ding Qian</b> (September, 2021) Novel View Synthesis from Casually Recorded Videos
<b>Joe Collins O'Connor</b> Syntactic Transfer for Low-Resource Machine Translation with Contextual Parameter Generation	<b>Angelos Pelecanos</b> Non-Asymptotic t-Wise Independence of Substitution-Permutation Networks	<b>Jessica A. Quaye</b> Sensor Localization Using Measured Signals
<b>Clemente Ocejo Elizondo</b> Modeling with Attention in Demand Forecasting and Beyond	<b>Eric John Pence</b> Beyond Cryptography: Deniable Privacy for Secure Data Aggregation	<b>Saumya Rawat</b> Multi-Dimensional Evaluation Metrics for Chest X-Ray Reports
<b>Juan M. Ochoa Ortiz</b> (February, 2022) Pre-trained Language Models for Clinical Systematic Literature Reviews	<b>Brandon A. Perez</b> Design Optimizations for Action Recognition Applications	<b>Robert L. Redmond</b> Graphical User Interface for Anomaly Detection in DBOS
<b>Carolina Ortega Pérez</b> FlexC: Flexible Compartmentalization Through Automatic Policy Generation	<b>Áron Ricardo Perez-Lopez</b> (September, 2021) Puppetmaster: A Certified Hardware Architecture for Task Parallelism	<b>Victor M. Reyes Espinoza</b> Text-Driven Video Manipulation
<b>Stephen E. Otremba, Jr.</b> SmartPitch: Applied Machine Learning for Professional Baseball Pitching Strategy	<b>Isaac S. Perper</b> (September, 2021) A Low-Cost, Scalable Platform for Sub-Centimeter UHF RFID Positioning	<b>Holly Anne Rieping</b> (February, 2022) Audio Segmenting and Natural Language Processing in Oral History Archiving
<b>Nassim Oufattoule</b> Optimizing Tabular Data Synthetic Data for Regression/Classification	<b>Jacob D. Phillips</b> (February, 2022) Unsupervised Latent Debiasing of Language Models	<b>Anthony C. Roman</b> (See also S.B., Course VI-3) Interactive Audience-Controlled Live Storytelling Technologies
<b>Gregory M. Paillet</b> (February, 2022) Using Sports Videos to Showcase Exciting Content to Viewers	<b>Joshua J. Piel</b> (February, 2022) (See also S.B., Course VI-2) Closed Loop Control for a Piezoelectric-Resonator-Based DC-DC Power Converter	<b>Alexander James Root</b> Optimizing Vector Instruction Selection for Digital Signal Processing
<b>Hannah Hailan Pang</b> Computational Action in Action: Process and Tools that Empower Students to Make a Real-World Impact Using Technology	<b>Stuart D. Powell</b> Bio-Signal Analysis for Personalized Pilot Training	<b>Isabel Sarah Hokuaō Rosa</b> Performance Engineering of Directional Message-Passing Algorithms Through a Stencil-Based Approach for Applications in Molecular Dynamics
<b>YeonHwan Park</b> Generating Differentially Private Synthetic Text	<b>Magdalena A. Price</b> Open Coding for Machine Learning	<b>Premila Rowles</b> (February, 2022) Dynamic Compensation of Inverter Based Control in Response to Time Varying Power Disturbances in Electric Microgrids

<b>Juan A. Salazar</b> Computational Design and Control of Autonomous Underwater Vehicles	<b>Dylan Taft Sleeper</b> (February, 2022) Grounded SCAN Human: A Benchmark for Zero-Shot Generalizations	<b>Max R. Tell</b> Dynamic Spatio-Temporal Graph Convolutional Networks
<b>Pachara Sawettamalya</b> Fast Algorithms for Bounded-Range LIS Approximation	<b>Carson J. Smith</b> (See also S.B., Course VI-3) Attention-Based Learning for Combinatorial Optimization	<b>Mark Theng</b> (February, 2022) GoTxn: Verifying a Crash-Safe, Concurrent Transaction System
<b>Alizee Schoen</b> Scalable Methods for Navigating Large Annotation Collections in NB	<b>Jack W. Snowdon</b> Empirical Study on the Tradeoffs of Action Recognition Models for Industry	<b>Nicole D. Thumma</b> (February, 2022) Potential Field Approach for Cooperative Range-Only Localization in Multi-Robot Networks
<b>Theodoros Sechopoulos</b> (February, 2022) Program Synthesis with Symbolic Properties	<b>Andrew M. Sorenson</b> Superconducting Electronics for Breakthrough Starshot Communications	<b>Peter T. Tran</b> (September, 2021) Automated Visual Inspection of Lyophilized Products via Deep Learning and Autoencoders
<b>Rishi Nilesh Shah</b> (September, 2021) An Autonomous Casualty Status Communication Tool	<b>Benjamin F. Spector</b> (See also S.B., Course VI-3) Bounding the Last Mile: Practical Learned String Indexing	<b>Sunny Tran</b> (February, 2022) Solving Machine Learning Problems
<b>Keithen E. Shepard</b> Estimating the Impact of Automated Umpiring in Baseball via Monte Carlo Simulation	<b>Ashwin Srinivasan</b> (February, 2022) Using Machine Learning for Description and Inference of Cyber Threats, Vulnerabilities and Mitigations	<b>Mihir Yatin Trivedi</b> (February, 2022) A Speech and Media Interaction Model for Individuals with Vision and Speech Impairments
<b>Belinda Y. Shi</b> (February, 2022) Processing Methods for the Detection of Landmark Acoustic Cues	<b>Matthew Joseph Stallone</b> Monkey: A Distributed Orchestrator for a Virtual Pseudo-Homogenous Computational Cluster Consisting of Heterogeneous Sources	<b>Matthew James Turner</b> Analyzing Multi-Agent Reinforcement Learning and Coevolution in Cybersecurity Simulations
<b>Hyeyoung Shin</b> (September, 2021) System to Enhance Communication for Minimally Verbal Individual with Autism	<b>Elijah B. Stanger-Jones</b> (February, 2022) Expanding the Capabilities of Dynamic Robotics Systems	<b>Julie Renee Vaughn</b> (September, 2021) Understanding Opioid Prescription Practices and Patient Experiences of Pain from Clinical Notes
<b>Ryan M. Shubert</b> (February, 2022) Multi-Agent Reinforcement Learning for Vision-based Control of Autonomous Quadrotors	<b>George Stefanakis</b> Theory and Applications of Matrix Completion in Genomics Datasets	<b>Sidney Y. Vermeulen</b> Multi-Omics Investigation to on the Effect of Replication on Leukemia Cells
<b>Nikhil M. Singhal</b> Efficient Connectivity Maintenance For Distributed Robotic Systems	<b>Patroklos N. Stefanou</b> Learning for Truncated and Censored Data in Practice	<b>Julian T. Viera</b> Smoothed Complexity of Network Coordination Games
<b>Christabel J. Sitienei</b> (September, 2021) Beyond Diagnosing Diabetic Retinopathy	<b>Daniel J. Stein</b> Mapping Molecular Changes in Human Neuropsychiatric Disorders to Zebrafish Behavioral Profiles	<b>Charles J. Vorbach</b> Safety Assurance for Automated Vehicles Beyond Collision Avoidance
<b>Cel Andromeda Skeggs</b> Vivid: An Operating System Kernel for Radiation-Tolerant Flight Control Software	<b>Daniel X. Sun</b> (September, 2021) Clustering Tweets via Tweet Embeddings	<b>Julia Noel Wagner</b> Unsupervised Semantic Clustering of Dialogue Utterances

<b>Brice Wang</b> CellMincer: Self-Supervised Denoising of Functional Imaging	<b>Wesley M. Woo</b> (February, 2022) CommunAir: Building Low-cost Community Data Infrastructure with Sensors, Spreadsheets, and Open Datasets	<b>Albert S. Yue</b> Success Classification for Object Navigation
<b>Fan Francis Wang</b> Verik: Reinterpreting Kotlin as a Hardware Description Language		<b>Kevin Yue</b> Unsupervised Workflow Discovery in Provenance Graphs
<b>Jennifer L. Wang</b> A Gesture Recognizing Tool for Virtual Presentations	<b>Mark J. Wright</b> Automated Force-Velocity Profiling of National Football League Athletes	<b>Annie T. Yun</b> (September, 2021) Causal Structure Discovery with Latent Variables
<b>Julia Jiaye Wang</b> Natural Language Processing and Recommendation Engine for Stack Overflow Data	<b>Julia J. Wu</b> (February, 2022) Predicting Tweet Engagement of Audience Interest Clusters	<b>Mikaeel M. Yunus</b> Needles in the Quantum Haystack: CMS Anomaly Detection with Normalizing Flows
<b>Ming Wang</b> Estimating Vehicle Speed with Consumer Grade Mobile LiDAR	<b>Brian S. Xia</b> Anomaly Detection in Database Operating System	<b>Timothy D. Zavarella</b> A Methodology for Using eBPF to Efficiently Monitor Network Behavior in Linux Kubernetes Clusters
<b>Yi Wang</b> (September, 2021) Improving Automatic Detection and Characterization of Ulcerative Colitis Using Colonoscopy	<b>Zhuofan Xie</b> (February, 2022) Tracer: A Machine Learning Based Data Lineage Solver with Visualized Metadata Management	<b>Franklin Zhang</b> (February, 2022) Optimal Control of a Novel Wave Energy Converter
<b>Babu-Abel M. Wanyeki</b> A Two-Stage Piezoelectric Resonator and Switched Capacitor DC-DC Converter	<b>Helen J. Xu</b> A Universally Applicable Differential Privacy System: Redefining Utility in Database Privacy to Prioritize User Experience	<b>Jerry Zhang</b> (See also S.B., Course VI-3) Perception and Motion Planning for Autonomous Surface Vehicles in Aquaculture
<b>Nathan W. Weckwerth</b> Heterogeneous Hardware Support for Apiary	<b>Steven Yang</b> Pretraining Table Embeddings for Knowledge Graph Based Provenance Systems	<b>Sammy W. Zhang</b> Unsupervised Crypto Clustering with NLP
<b>Danielle Marie White</b> Nonprehensile Manipulation of Multi-Link Hinges	<b>Aaron J. Yeiser</b> A Fully-Implantable Low-Noise EMI-Resistant Piezoelectric-Polymer Microphone and Amplifier for the Middle Ear	<b>Jiajia Zhao</b> (September, 2021) The Power of Social Information in Distributed Consensus in Ant-Colonies: Model and Analysis
<b>Christien S. Williams</b> (February, 2022) Fast Supervised Annotation and Active Learning with Uncertainty for Cloud Mask Dataset Generation	<b>Rahul V. Yesantharao</b> (February, 2022) Parallel Batch-Dynamic <i>kd</i> -trees	<b>Elizabeth Y. Zou</b> (See also S.B., Course VI-3) Preliminary Investigation of Productivity Tools for Memory Profiling in Parallel Programs
<b>Jan Robert Wójcik</b> Automated Optimal Ultrasound Transducer Simulator	<b>Claire Yin</b> Incorporating Structured Commonsense into Language Models	
<b>Madeline M. Wong</b> Beatty: Automatic Tempo Curve Synthesis for Expressive MIDI Track Playback	<b>Yueyang Ying</b> (February, 2022) ML and the Jets	
	<b>Lisa Y. Yoo</b> (February, 2022) Simulating Urban Air Mobility Supply	

## 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*

**Tiwalayo Terrence-Luke Aina**

(See also S.B., Course VI-7)

Deep Learning for Visualization of  
Velocity-Enriched RNA-Seq Data

**Ruiwen Fu**

Single Cell Landscape of Innate and  
Adaptive Immunity in Metastatic  
Melanoma Treated with Immunotherapy

**Karthik Nair**

(See also S.B., Course VI-7)

Bladder Cancer Histopathology Embeds  
Maps of Heterogeneity Predictive of  
Treatment Response

**Lawrence C. Wong**

Time Series Anomaly Detection using  
Prediction-Reconstruction Mixture Errors

## 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*

**Sayed Saad Afzal**

Battery-Free Subsea Internet-of-Things

**Shyan Shaer Akmal**

(September, 2021)

Longest Common Subsequence Over  
Constant-Sized Alphabets: Beating the  
Naive Approximation Ratio

**Christian Alexander Allinson**

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

Enabling Proactive Quality in  
Commercial Airplanes Using Natural  
Language Processing

**Sarah Abdulaziz Alnegheimish**

(See also S.M., Comp. Sci. & Eng)

Orion: A Machine Learning Framework  
for Unsupervised Time Series Anomaly  
Detection

**Abdullah Omar M Alomar**

(September, 2021)

(See also S.M., Comp. Sci. & Eng)  
Multivariate Singular Spectrum Analysis;  
A Principled, Practical, and Performant  
Solution for Time Series Imputation and  
Forecasting

**Alexander Joseph Andonian**

(September, 2021)

Emergent Capabilities of Generative  
Models: "Software 3.0" and Beyond

**Lama Sara Aoudi**

(February, 2022)

(See also S.M., Technology and Policy  
Program)

An Open-Source Computational  
Framework for the Scalable Application  
of Electrification Planning

**Manel Baradad Jurjo**

(September, 2021)

Learning to See by Looking at Noise

**Emma K. Batson**

Reduced Indium Tin Oxide as a  
Transparent Superconductor

**Taylor Elise Baum**

(September, 2021)

Steps Towards a Closed-Loop System for  
Blood Pressure Control

**Akhilan Boopathy**

Towards More Generalizable Neural  
Networks via Modularity

**Isaiah August Brand**

(February, 2022)

Structural Priors for Active Learning on  
Robots

**Yuan Cai**

(February, 2022)

(See also S.M. Building Tech., Course IV)  
Simulation- and Experiment-Based  
Setpoint Control for Heating, Ventilation,  
and Air-Conditioning Systems: A Single-  
and Multi-Objective Optimization  
Problem

**Peng Cao**

RF-Based Indoor Localization Around  
Corners

**Minghan Chao**

(February, 2022)

All Analog CNN Accelerator with  
RRAMs for Fast Inference

**Kristin Yijie Chen**

(September, 2021)

(See also S.M., Engineering and Manage-  
ment)

A Systematic Approach for Cyber Risk  
Management

**Tao Chen**

(February, 2022)

A System for General In-Hand Object  
Re-Orientation

**Yishen Chen**

(September, 2021)

VeGen: A Vectorizer Generator for SIMD  
and Beyond

**Axelle Clochard**

(February, 2022)

(See also S.M., Technology and Policy  
Program)

Using Network Analysis of Job  
Transitions to Inform Career Advice

**Lalita Devadas**

Rate-1 Non-Interactive Arguments for  
Batch-NP

**Yuqin Duan**

(September, 2021)

A Vertically Loaded Diamond Microdisk  
Resonator (VLDMoRt) towards a Scalable  
Quantum Networks

**Mohamed Elsheikh**

A 2-D Scalable Third Harmonic Radiator  
at 291.3 GHz with -2 dBm of Radiated  
Power in 22 nm FinFET Technology

**Taylor L. Facen**

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

How Enhanced Data Availability Affects  
Multi-Channel Marketing Attribution

**Wei Fang**

(September, 2021)

Structured Knowledge Extraction from  
Text for Automatic Fact Checking

<b>Xiaolin Fang</b> Generalizable Robot Manipulation through Task and Motion Planning and Interactive Perception	<b>Han-Ching Elizabeth Hau</b> (See also M.B.A., Course XV) Digital Thread and Analytics Model to Improve Quality Controls in Surgical Stapler	<b>Wonki Kang</b> (February, 2022) (See also S.M.Arch.S., Course IV) Sonic Hypermirror: Attuning to Hyperobjects
<b>Faraz Faruqi</b> Augmenting Shared 3D Model Repositories with Slicing Results for 3D Printing	<b>Alexandra M. Henzinger</b> Single-Server Private Information Retrieval with Sublinear Amortized Time	<b>John Alexander Keszler</b> (September, 2021) A Hardware-Software Co-Design Approach to High Throughput Visual Localization for Fast and Agile Robotics
<b>Xiang Fu</b> Simulate Time-integrated Coarse-grained Molecular Dynamics with Geometric Machine Learning	<b>Evan Michael Hernandez</b> (February, 2022) Cataloging Neurons by Captioning Activations	<b>Muhammad Ibrahim Wasiq Khan</b> (September, 2021) CMOS THz-ID: A 1.6mm <sup>2</sup> Package-Less Identification Tag Using 260-GHz Far-Field Backscatter Communication
<b>Farri Gaba</b> (See also S.M., Technology and Policy Program) Solutions to the Generalized UAV Delivery Routing Problem for Last-Mile Delivery with Societal Constraints	<b>Brice Huang</b> (February, 2022) The Algorithmic Phase Transition of Random k-SAT for Low Degree Polynomials	<b>Ching-Yun Ko</b> Revisiting Contrastive Learning Through the Lens of Neighborhood Component Analysis
<b>Seyed Khashaier Gatmiry</b> Testing, Learning, and Optimization in High Dimensions	<b>Jacob Minyoung Huh</b> The Low-Rank Simplicity Bias in Deep Networks	<b>ByeongJo Kong</b> (See also S.M., Engineering and Management) Analyzing Student's Problem-Solving Approaches in MOOCs Using Natural Language Processing
<b>Bilha-Catherine Githinji</b> Model-Based Control for Robot Manipulation of Non-Rigid Objects	<b>Yuka Ikarashi</b> Exocompilation for Productive Programming of Hardware Accelerators	<b>Thomas Charles Krause</b> (September, 2021) Sensing for Electromechanical Systems
<b>Xinyi Gu</b> (September, 2021) Generalist 3D Cell Phenotyping for All-Type Tissues	<b>Thavishi Harindi Illandara</b> Active Keyframe Learning (AKL): Learning Interaction and Constraint Keyframes from a Single Demonstration of a Task	<b>Anjali M. Krishnamachar</b> (See also M.B.A., Course XV) Fulfillment Simulation and Inventory Location Optimization
<b>Chenghao Guo</b> Linear Programs with Polynomial Coefficients and Applications to 1D Cellular Automata	<b>Athul Paul Jacob</b> Learning Effective and Human-Like Policies for Strategic, Multi-Agent Games	<b>Benjamin Mark Lahner</b> Understanding Human Visual Perception of Natural Videos
<b>Zhen Guo</b> (February, 2022) Randomized Probe Imaging through Deep K-Learning	<b>Dustin Isidore Jamner</b> A Framework for Modular, Extensible, Equivalence-Preserving Compilation	<b>Cheng-I Lai</b> Finding Sparse Subnetworks for Self-Supervised Speech Recognition and Speech Synthesis
<b>Poorya Habibzadeh</b> (February, 2022) Discrepancy Values and their Applications	<b>Patricia Helena Jastrzebska-Perfect</b> On-Site Synthesis of Halide Perovskite Nanocrystals with Sub-50 nm Positional Accuracy	<b>Aaron William Langham</b> Resolution Tricks and Disaggregation Tools for Smart Power Metering
<b>Pouya Hamadanian</b> (February, 2022) Reinforcement Learning in Time-Varying Systems: an Empirical Study	<b>Tejas Kumar Jayashankar</b> (February, 2022) Image Compression Using Sum-Product Networks	<b>Thien Le</b> (February, 2022) Training Invariances and the Low-Rank Phenomenon: Beyond Linear Networks
<b>Mark Thomas Hamilton</b> Axiomatic Explanations for Visual Search, Retrieval, and Similarity Learning	<b>Zeyu Jia</b> (February, 2022) Non-Parametric Threshold for Smoothed Empirical Wasserstein Distance	

<b>Hyun Ryong Lee</b> Generating Representative Benchmarks by Automatically Synthesizing Datasets	<b>Jiayuan Mao</b> (September, 2021) Programming, Learning, and Reasoning with Temporal and Object Quantification Networks	<b>Eleni Stylianis Oikonomaki</b> (See also S.M.Arch.S., Course IV) Soundscapes as Urban Transformation: Introducing a Notational Language that Represents the Shifting Relationships Between Sound, Space, and Movement
<b>Eric Lehman</b> Question Generation for Clinical Handoff Cases	<b>Markos Markakis</b> Rethinking Update-in-Place Key-Value Stores for Modern Storage	<b>Basak Ozaydin</b> GRAND-Assisted Optimal Modulation
<b>Yuxuan Lei</b> (See also S.M.Arch.S., Course IV) A Virtual Reality Rehabilitation Interface with Augmented Sensing, Interaction, and Visualization Techniques	<b>Christopher Michael McNally</b> (September, 2021) Practical Modern Quantum Programming	<b>Hyunjin Park</b> (February, 2022) Non-Parametric Analyses of the Regulatory Roles of LINE-1 Retrotransposons during Motor Neuron Differentiation
<b>Theodore Peter Letsou</b> (September, 2021) Quantum Cascade Laser Frequency Combs	<b>Owen Anthony Medeiros</b> Investigation of Thin Film Supercurrent and Photodetection in Wide Niobium Nitride Wires	<b>Olivia Peihua Pfeiffer</b> (See also S.M., Technology and Policy Program) Machine Learning for Strength Prediction and Optimal Design of Sustainable Concrete Formulas
<b>Yifei Li</b> DiffCloth: Differentiable Cloth Simulation with Dry Frictional Contact	<b>Safa Can Medin</b> (September, 2021) Learning-Based Methods for Occluder-Aided Non-Line-of-Sight Imaging	<b>Colin M. Poler</b> (See also M.B.A., Course XV) Improving Operational Efficiency of a Small Manufacturing Maintenance Organization
<b>Yi-Lun Liao</b> (September, 2021) Searching for Efficient Multi-Stage Vision Transformers	<b>Christina Kathleen Michaels</b> (See also M.B.A., Course XV) Short Duration Job Scheduling and Assignment Using Staged Mixed Integer Programs	<b>Joshua Maxwell Pollock</b> Bluefish: A Grammar of Relational Graphics
<b>Amanda Yulin Liu</b> Verified Scheduling Via High-Level Scheduling Rewrites	<b>Daniel R. Monagle</b> Clamp-On Magnetic Energy Harvesting	<b>Can Pu</b> (September, 2021) (See also S.M., Course XXII) Non-Gaussian Factor Graph Inference for Robotic Navigation
<b>Boyu Liu</b> (February, 2022) (See also S.M., Technology and Policy Program) Improving Labor Market to Reduce Labor Abuse in South East Asia	<b>Luke Scott Murray</b> (February, 2022) Unified Documentation and Information Retrieval for Electronic Health Records	<b>Marianne Rakic</b> Learning Conditional Templates for Brain MRI
<b>Timothy Power Livingston</b> (See also M.B.A., Course XV) Streamlining Financial Analysis for Novel Robotics Concepts	<b>Arash Nasr-Esfahany</b> (February, 2022) CausalSim: Toward a Causal Data-Driven Simulator for Network Protocols	<b>Aaron Castagna Ray</b> (September, 2021) Viewpoint-Aware Model Predictive Control for Applications in Drone Videography and Multi-Target Tracking
<b>Charlotte Chang Le Loh</b> (September, 2021) Overcoming Data Scarcity in Deep Learning of Scientific Problems	<b>Parimarjan Negi</b> (February, 2022) Some Cardinality Estimates are More Equal than Others	<b>Philip Harris Rich</b> Effects of Surface Ion Milling on Ion Trap Heating
<b>Andrew Ma</b> (September, 2021) A Machine Learning Approach for Understanding and Discovering Topological Materials	<b>Saba Nejad</b> (See also S.M., Technology and Policy Program) Data-Driven Analysis of Time of Day Pricing for Residential Consumers	<b>James Maxwell Salamy</b> (February, 2022) Network Requirements for Distributed Machine Learning Training in the Cloud
<b>Amir Nouripour</b> (September, 2021) Selling Information in Competitive Environments		

<b>Noah James Salk</b> Design Methodology for an Ultra-High Efficiency, Coreless Resonant Power Transformer	<b>Zhi Xuan Tan</b> (February, 2022) PDDL.jl: An Extensible Interpreter and Compiler Interface for Fast and Flexible AI Planning	<b>Shangjie Xue</b> (September, 2021) (See also S.M., Course XXII) Machine Learning Aided Aerial Radiation Mapping
<b>Nikola Samardzic</b> Enabling Real-time Private DNN Inference Using Fully Homomorphic Encryption	<b>Haotian Tang</b> Efficient Systems and Algorithms for Deep Learning on Point Clouds	<b>Sravani Yajamanam Kidambi</b> (See also M.B.A., Course XV) End-to-End Artificial Intelligence Lifecycle Management
<b>Olivia Wen Seow</b> (See also S.M., Engineering and Management) An Intuitive Tool for 3D Design Creation	<b>Andrew John Tindall</b> (See also M.B.A., Course XV) Analytics to Make Hybrid Work, Work	<b>Lisa L. Yang</b> (September, 2021) Delegation and PPAD-Hardness
<b>Alexandre Servan-Schreiber</b> (September, 2021) Private Similarity Search with Sublinear Communication	<b>Shangyuan Tong</b> Learning to Align the Supports of Distributions	<b>Matthew Yeung</b> (February, 2022) Relaxation Dynamics of Photoexcited Carriers in Graphene
<b>Ticha Melody Sethapakdi</b> (February, 2022) Designing and Fabricating Polarized Light Mosaics with User-Defined Color Changing Behaviors	<b>Elizaveta Tremsina</b> Atomistic Simulations of Antiferromagnetic Solitons and their High-Speed Dynamics	<b>Shangdi Yu</b> (February, 2022) ParChain: A Framework for Parallel Hierarchical Agglomerative Clustering using Nearest-Neighbor Chain
<b>Pratyusha Sharma</b> (February, 2022) Discovering and Aligning the Language of Concepts	<b>Peiqi Wang</b> (February, 2022) Image Classification with Consistent Supporting Evidence	<b>Chenhui Yuan</b> Twist: Sound Reasoning for Purity and Entanglement in Quantum Programs
<b>Anthony Simeonov</b> A Long Horizon Planning Framework for Manipulating Rigid Pointcloud Objects	<b>Wei-Chen Wang</b> Regulating Orthogonality of Feature Functions for Highly Compressed Deep Neural Networks	<b>Kaiwen Zha</b> Deep Imbalanced Regression: Challenges, Methods, and Applications
<b>Nouran Soliman</b> (February, 2022) Characterizing and Predicting Tasks at Risk in Team Task Management	<b>William Wei Wang</b> (September, 2021) A Minimax Approach to Learning Gaussian Mixtures	<b>Annan Zhang</b> Vision-Based Proprioceptive and Force Sensing for Soft Robotic Actuator
<b>Ragini Sreenath</b> (February, 2022) (See also S.M., Technology and Policy Program) Transitioning Transit : Modeling the Electrification of an Intracity Bus System	<b>Jessica Kimberly Weaver</b> (September, 2021) Multiuser Detection for Enhanced Satellite Communication	<b>Xinyi Zhang</b> Integration of Spatial Transcriptomics with Chromatin Images Using Graph-Based Autoencoder Identifies Joint Biomarkers for Alzheimer's Disease
<b>Hyung Ju Terry Suh</b> (February, 2022) Predictive Models for Visuomotor Feedback Control in Object Pile Manipulation	<b>Hallee Erica Wong</b> Evaluating Learned and Rule-Based Policies for Hospital Bed Assignment	<b>Yang Zhong</b> (September, 2021) (See also S.M., Course II) Understanding and Characterizing Thermal Transport in 2D van der Waals Nanoelectronics
<b>Madison M. Sutula</b> (February, 2022) Large-Scale Characterization of Quantum Emitters in High-Purity Diamond	<b>Alice Qianlan Wu</b> Singlet Fission Organic Solar Cell with Long-Wavelength Absorption Using Non-fullerene Acceptors	<b>Jiadi Zhu</b> (September, 2021) High Performance MoS <sub>2</sub> Transistors Based on Wafer-Scale Low-Temperature MOCVD Synthesis

**Yuan Zhu**  
(See also S.M., Course XXII)  
Digital Noise Reconstruction with a  
Quantum Sensor

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

**Andrew C. Mikkelsen**  
(See also M.B.A., Course XV)  
Biomanufacturing Automation Plug and  
Play

**Lois Eileen Nersesian**  
(See also M.B.A., Course XV)  
Text Analytics to Inform Deviation Root  
CauseAnalysis in Biomanufacturing

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

**Giulio Alighieri**  
(February, 2022)  
(See also Ph.D., Course X)  
Attended School of Chemical  
Engineering Practice in Lieu of Thesis

**Ronghua Bei**  
(February, 2022)  
Attended School of Chemical  
Engineering Practice in Lieu of Thesis

**Marc Dylan Berliner**  
(September, 2021)  
Attended School of Chemical  
Engineering Practice in Lieu of Thesis

**Ruoqing Cai**  
(February, 2022)  
Attended School of Chemical  
Engineering Practice in Lieu of Thesis

**Jianqiao Cui**  
Attended School of Chemical  
Engineering Practice in Lieu of Thesis

**Weiran Gao**  
(February, 2022)  
Attended School of Chemical  
Engineering Practice in Lieu of Thesis

**Conrad E. Goffinet**  
(September, 2021)  
Attended School of Chemical  
Engineering Practice in Lieu of Thesis

**Devashish Pratap Gokhale**  
Attended School of Chemical  
Engineering Practice in Lieu of Thesis

**Kelsey S. Jamieson**  
(September, 2021)  
Attended School of Chemical  
Engineering Practice in Lieu of Thesis

**Xiaojia Jin**  
(September, 2021)  
Attended School of Chemical  
Engineering Practice in Lieu of Thesis

**Haberly B. Kahn**  
(September, 2021)  
Attended School of Chemical  
Engineering Practice in Lieu of Thesis

**Wei Han Lim**  
(September, 2021)  
Attended School of Chemical  
Engineering Practice in Lieu of Thesis

**Fabian Mohr**  
(September, 2021)  
Attended School of Chemical  
Engineering Practice in Lieu of Thesis

**Watchara Ouysinprasert**  
(February, 2022)  
Attended School of Chemical  
Engineering Practice in Lieu of Thesis

**James Thomas Owens II**  
Attended School of Chemical  
Engineering Practice in Lieu of Thesis

**Hao-Wei Pang**  
(September, 2021)  
Attended School of Chemical  
Engineering Practice in Lieu of Thesis

**Luke Hyunsik Rhym**  
(February, 2022)  
(See also Ph.D., Course X)  
Attended School of Chemical  
Engineering Practice in Lieu of Thesis

**Arjav Utpal Shah**  
Attended School of Chemical  
Engineering Practice in Lieu of Thesis

**Venkata Saicharan Thatipamula**  
Attended School of Chemical  
Engineering Practice in Lieu of Thesis

**Soor Rajiv Vora**  
(February, 2022)  
Attended School of Chemical  
Engineering Practice in Lieu of Thesis

**Wan-Ni Wu**  
Attended School of Chemical  
Engineering Practice in Lieu of Thesis

**Sungyun Yang**  
Attended School of Chemical  
Engineering Practice in Lieu of Thesis

**Yuexuan Zu**  
(September, 2021)  
Attended School of Chemical  
Engineering Practice in Lieu of Thesis

**Arjun Shivam Zutshi**  
(February, 2022)  
Attended School of Chemical  
Engineering Practice in Lieu of Thesis

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

**Samuel Patrick Austin**  
Computational Zoning Assessment of  
Unconventional Aircraft

**Nicholas Gerald Belsten**  
(February, 2022)  
Magnetic Cleanliness, Sensing and  
Calibration for CubeSats

**Harsh Girishbhai Bhundiya**  
Bend-Forming: A Deformation Process  
for In-Space Manufacturing of Truss  
Structures

**Daniel John Borchik**  
(See also M.B.A., Course XV)  
Exploring the Application of Lean  
Processes Enhanced by Digital Archiving  
in Precision Subtractive Manufacturing

<b>Yang Chen</b> Effects of Fuel Stage Proportion on the Emission Performance of a Lean-Burn Internally-Staged Combustor for Aircraft Gas Turbine Engine	<b>Shreeyam Kacker</b> Optical Performance and Prototyping of a Liquid Lens Laser Communications Transceiver	<b>Siddharth Nagar Nayak</b> Learning Based Scheduling
<b>Matthew Nicholas Corrado</b> Active Thermal Augmentation and Ultra Dense MEMS-Based Electrospray Thrusters	<b>Walter Thomas Kelso III</b> (September, 2021) Cost Optimization of US Sustainable Aviation Fuel Supply Chain Under Different Policy Constraints	<b>Nils Pachler de la Osa</b> A Complete Resource Allocation Framework for Flexible High Throughput Satellite Constellations
<b>Mary Dahl</b> Development of Structures and Methods for Safe On Orbit Robotic Assembly of Small Satellites	<b>Evan Laith Kramer</b> Towards the Advancement of Rotating Synthetic Aperture Space Telescope Technology	<b>William Ellis Parker</b> Learning-Based Methods for Spacecraft Dynamics Modeling, State Estimation, and Control
<b>Annick Jade Dewald</b> (September, 2021) A Multidisciplinary Analysis of a Stratospheric Airborne Climate Observatory for Key Climate Risk Areas	<b>Alexander J. Kunycky</b> (February, 2022) Technical Challenges in Optimal Power Management of a Modular Hybrid Propulsion System for UAV VTOL Mission Requirements	<b>Duc Ngoc Pham</b> A Framework of a Power Management System for a Hybrid Electric VTOL Aircraft Using Optimal Control
<b>Rakesh Dubey</b> Performance Evaluation of a Lithium-Ion Pouch Battery Cell in Simulated Space Environment for a Pico-Satellite Concept (PicoSat)	<b>Zhenyu Liu</b> (See also Ph.D., Course XVI) Network Localization and Synchronization: Theory and Applications	<b>Daniel N. Pickard</b> Dynamic Eruptions on Soft Hydrogel Surfaces
<b>Allegra Danae Farrar</b> Incorporating Uncertainty into the Mars Entry Problem	<b>Trevor V. Long</b> (September, 2021) An Investigation of Blown Flapped Wings	<b>Justin Poh</b> (February, 2022) A Top-Down, Safety-Driven Approach to Architecture Development for Complex Systems
<b>Titilayo Opedola Fasoro</b> Trajectory Design Optimized Profile Descents	<b>Yanbin Long</b> Airline Revenue Management with Segmented Continuous Pricing: Methods and Competitive Effects	<b>Justine Nikole Schultz</b> Steady-State and Transient Thermal Modeling of Solid Electrolysis (SOXE) within the Mars Oxygen In-Situ Resource Utilization Experiment
<b>Amelia T. Gagnon</b> (February, 2022) Formation of RAAN-Spread CubeSat Constellations Utilizing Onboard Low-Thrust Propulsion	<b>Michael James Lunny</b> (See also M.B.A., Course XV) Automation of NC Programming with Artificial Intelligence	<b>Peter David Sharpe</b> (September, 2021) AeroSandbox: A Differentiable Framework for Aircraft Design Optimization
<b>Chloé Gentgen</b> Hybrid Chemical-Electric Propulsion Systems for CubeSats	<b>Ara Mahseredjian</b> A Data-Driven Approach to Departure and Arrival Noise Abatement Flight Procedure Development	<b>Elwyn Sirieys</b> (See also S.M., Technology and Policy Program) Environmental Impact of Space Launches and Societal Response
<b>Nathan Harold Hughes II</b> Hydra: A Spatial Perception Engine for Constructing and Optimizing 3D Scene Graphs in Real-time	<b>Jeffrey William Miller</b> (See also M.B.A., Course XV) Application of an Agile Framework in Assessing and Aligning Digital Twin Use Cases Across Product Classes in a Large Organization	<b>Maya Elizabeth Slavin</b> (See also S.M., Technology and Policy Program) Incentivizing Collaboration on Space Sustainability: Detectability, Identifiability, and Trackability of Space Missions
<b>Madeleine Christine Jansson</b> (September, 2021) Development of a Fast Tool to Observe Patterns in Airport Noise	<b>Adam Munekata</b> Safety in US Air Force Tandem Seat Pilot Training Applying STAMP Processes	<b>Connor Thomas Stehr</b> (See also M.B.A., Course XV) Accelerating Adoption of Large-Format Additive Manufacturing in Aerospace Tooling
<b>Rebecca Hanna Hacker Jiang</b> Shape and Motion Optimization of Rigid Planar Manipulators		

**June Shelby Stenzel**  
Implementing Model-Based Verification  
for The Large Lenslet Array Magellan  
Spectrograph

**Delia Stokes Stephens**  
(See also S.B., Course XVI)  
RikerSat: An Architecture for Solving  
Constraint Satisfaction Problems under  
Uncertainty

**Spencer Vinh Taylor**  
Energy Absorption and Dynamic  
Behavior of Architectured  
Interpenetrating Phase Composites

**Albert Quang-Thong Thieu**  
On-Orbit Pointing Risk Mitigation for  
the Agile MicroSat (AMS) CubeSat Laser  
Guidestar Payload

**Sophia K. Vlahakis**  
On-orbit Characterization of a  
Microelectromechanical Systems (MEMS)  
Deformable Mirror (DM): Mission  
Results from the Deformable Mirror  
Demonstration Mission (DeMi) CubeSat

**Carter John Waligura**  
Investigation of Spalart-Allmaras  
Turbulence Model Modifications for  
Hypersonic Flows Utilizing Output-  
Based Grid Adaptation

**Charity Wangari**  
Emission Capabilities of Nafion-Based  
Ion Emitting Surfaces

**Jerrod Alexander Wigmore**  
(September, 2021)  
Network Reliability and Routing under  
the MVN Model

**Michelle Xu**  
Computational Modeling and Validation  
of the Deformation and Failure Response  
of Human Metastatic Vertebrae

**Syed Shayan Zahid**  
Impact of Water Injection on Emissions of  
Nitrogen Oxides from Aircraft Engines

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

**Shelbi Nicole Parker**  
Creating a New Malaria Vaccine Design  
that uses a Blood Stage *P. falciparum*  
Chassis for Non-Blood Stage Antigen  
Presentation

**Master of Science in Nuclear  
Science and Engineering**  
Course XXII  
*Department of Nuclear Science and  
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**Jacob Lazer Adams**  
(September, 2021)  
Drawn Polymer Fiber Recuperative Heat  
Exchangers

**Ali Saleh Aljefri**  
(September, 2021)  
Technical and Economic Feasibility of  
Crushed Rock with Synthetic Oil Heat  
Storage Coupled to Light Water Reactors  
in the United Arab Emirates

**Brandon A. Aranda Ocampo**  
Assessment of Multi-Phase CFD  
Frameworks for High Void Fraction Flow  
in Large Diameter Systems

**Justin Michael Knoll**  
Alarm for Autonomous UAV Radiation  
Mapping Algorithm

**Peninah Lise Levine**  
(See also S.B., Course XXII)  
Feasibility Study of Compact Neutron  
Resonance Transmission Analysis using a  
Linac, a Fusion-Based Neutron Generator,  
and an Isotopic Source

**Xinyao Liang**  
(September, 2021)  
Advanced Thermal-Fluid Solutions for  
Underwater Diving Suit and COVID-19  
Facial Mask

**Can Pu**  
(September, 2021)  
(See also S.M., Course VI)  
Non-Gaussian Factor Graph Inference for  
Robotic Navigation

**Jefferson Braxton Sesler**  
Simulating Properties of Scintillating  
Integrated Fibers as Conformal Radiation  
Detectors

**Shangjie Xue**  
(September, 2021)  
(See also S.M., Course VI)  
Machine Learning Aided Aerial  
Radiation Mapping

**Yuan Zhu**  
(See also S.M., Course VI)  
Digital Noise Reconstruction with a  
Quantum Sensor

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

**Ibrahim Mohammed AlArfaj**

**Katherine Renee Arnold**

**Ankita Arora**

**Yalcin Arslan**

**Pedro Alejandro Benitez Nuñez**

**Grace Leigh Caza**

**Vikas Chandra**

**Muhammad Sohaib Chaudhry**

**Felicia Suat Teng Chen**

**Meiling Chen**

**Ashish Chhabria**

**Rachael Grace Clark**

**Kenneth Adam Critchlow**

**Didi Dai**

**Lisandro de Latorre**

**Matias Escuder Rebori**

**Karim Farran**

**Lauren Jennifer Fellin**

**Elise Nicole Fredericks**

Miguel Angel Garcia Gonzalez	Kai-Wei Lin	Tejinder Singh
Danniel Gonzalez	Siqing Liu	Sandeep Kumar Sirikande
Daniel Granados Nicholls	Jason Andrew Maen	Alejandro Souza Bosch
Frances Elizabeth Gremillion	Alexandros Mamakos	Alex St. Lifer
Ricardo Guadarrama Arias	Lauren Nicole Matz	Maksat Taibek
Jesús Guajardo Ramos	Jennie Waterfall May	Michael Wai-En Tchen
Avanika Gupta	Timothy Edward McCormack	Nan Wang
Abdulrahman S S Gweder	David Esteban Mera	Taryn Ashley Wenske
Himanshu Halbe	Andrew Scott Miller	Nicholas Shiverick Winters
Joaquin Andres Hidalgo	Christine Maria Mueller	Liam James Woolley-MacMath
A H M Shahidul Hoque	Sanjay Kumar Naithani	Huisi Wu
Brody Will Hughes	André Nascimento Costa	Jessica Yao Xiong
So Ikeya	Paula Ochsenius Olhaberry	Lili Yao
Aravindan Jayantha	Irene Obianuju Ogbuefi Chukwujekwu	<b><u>Master of Engineering in Supply Chain Management Program in Supply Chain Management</u></b>
Jinwoo Je	Mykola Oleksyn	
Sai Supraja Rao Karanam	Weiqian Pan	
Soon Kiat Ker	Maria del Pilar Pardo Rodriguez	<b><u>Jia Kai Samuel Chin</u></b> Solving the Traveling Salesman Problem via Semantic Segmentation with Convolutional Neural Networks
Lauren Mae Konopinski	Pai Peng	
Tony Seong Kook	Taylor Marie Peterson	<b><u>Master of Science in Computational and Systems Biology</u></b>
Emre Muzaffer Kulluk	Pranav Prakash	<b><u>Bruna Romila Lima</u></b> Defining the Molecular Basis for the $\beta$ -catenin and CDC73 Interaction
Debra Shun-Yuh Lee	Shah Akibur Rahman	
Kun-Zhe Lee	Michelle Stephanie Ramírez Moreno	<b><u>Master of Science in Engineering and Management Program in System Design and Management</u></b>
Nora Lestari	Varun Shekhar Rasiti Chandrashekhar	
Xiaoyue Li	Karoline Rueckerl	
Yulu Li	Hasan Ahmed Suleiman Shinar	
Jui Han Lin	Deviana Ferdinanda Sia	

**Robert Bruce William Andrais**  
(September, 2021)  
Probabilistic Production Forecasts Using Machine Learning

**Gloria Jesica Bahl Chambi**  
(September, 2021)  
Technology Roadmapping for Energy Storage Using ZEBRA Batteries

**Elizabeth White Baker**  
(February, 2022)  
Safety in Hospital Medication Administration Applying STAMP Processes

**Nicholas Joseph Borge**  
Deep Pockets: The Economics of Deep Learning and the Emergence of new AI Platforms

**Louis Caliwag Catalan**  
(September, 2021)  
Shaping of Strategic Staffing System

**Kristin Yijie Chen**  
(September, 2021)  
(See also S.M., Course VI)  
A Systematic Approach for Cyber Risk Management

**Angélica Graciela Chíncaro Donayre**  
The Story behind the Output: Enhancing Trustworthiness in Design Research through Visual Strategies

**Michelle Marie Chung Chung**  
Designing for Informational Needs Among Small Producers in Panama: A Human-Centred Approach

**Elliot James Collins**  
(See also Naval E., Course II)  
A Method for Organized Institutional Learning in the Navy Shipbuilding Community

**Christian Emerson Dowell**  
(September, 2021)  
Machine Learning for Downstream Oil and Gas Refineries: Applications for Solvent Deasphalting

**Eric John Ehn**  
(February, 2022)  
Multidisciplinary Architectural Study of On-Orbit Space Vehicle Refueling

**Joshua Wayne Fant**  
(September, 2021)  
'Firefighting' within the U.S. Coast Guard's Shore Infrastructure Capital Investment Program

**Evan Batman Joseph Feldman**  
The Economic Impact of the Coronavirus Pandemic in the USA

**Nestor V. Figueroa**  
(February, 2022)  
Using a System and Design Thinking Approach to Improve Citizen Utility from Open Data Initiatives within the Government of Puerto Rico

**Christopher Anders Garcia**  
Creating New Value from Laboratory Testing and Services in Value-Based Healthcare: Investigating Data Monetization Strategies from Clinical Laboratories

**Jeremy S. Goodwin**  
(September, 2021)  
Impact of Transformational Leader Behaviors on Diverse Team Performance and Persistence

**Thomas Cowart Fleming Goolsby**  
(September, 2021)  
System of Systems Composition and Course of Action Pathfinding Tool (CNCPT)

**Vignesh Gopalakrishnan**  
Modeling the Trajectory of Bitcoin Using System Dynamics

**Harsh Gupta**  
Using Product, Processes and Gamification to Motivate Users for Positive Habit Formation

**Allison MacKenzie Harris**  
Designing an Educational Mindfulness Experience for Future Leaders

**Christopher Nicholas Hein**  
(See also Naval E., Course II)  
Quantifying Flexibility in Naval Ship Design

**Matthew John Hernandez**  
(September, 2021)  
Learning Through Others for System Level Performance

**Javier Herrero**  
(February, 2022)  
A System Architecture for the Digital Thread in the Design of Commercial Airplanes

**R. Chadwick Holmes**  
(September, 2021)  
Exploration and Production Risk Mitigation for Geothermal Adoption in the Energy Transition

**Ricardo Bortot Hopker**  
A Canonical Experiment on System Complexity Metric and Its Impact on Engineering Management

**Chieh Hsieh**  
An Integrated Design and Management Program for Taiwan

**Kritisha Jain**  
(September, 2021)  
Making Makerspaces More Accessible for People with Visual Impairment: Understanding User Needs to Reimagine Solutions

**Sudhir Jain**  
Multiclass 3D Segmentation of Progressive Damage in Advanced Composites using Deep Learning.

**Nicholas Albertus Jansen van Rensburg**  
(February, 2022)  
Design of a Market Exchange for Climate Risk

**Cristian Alfredo Junge Bascur**  
(September, 2021)  
Deep Decarbonization of Texas: Impacts of High Electrification Scenarios

**Zahra Kanji**  
(See also S.M., Course II)  
Classification of Auscultation Sounds Using a Smart System

**Jitt Kasemsri**  
Exploring the Impact of Play: Designing for Wellbeing through Digital Mediums for Older Adults in Thailand

**Matthew Allen Kieke**  
(September, 2021)  
Architecting a Corporate Venture Capital Firm for a Commodity Enterprise

<b>Lakshmi Amrutha Killada</b> Understanding the Attitudes of Incumbent Manufacturing Workers toward Training Opportunities	<b>Yuanbo Liu</b> (February, 2022) When Technology Meets Patient Needs: Designing Mental Health Technology	<b>Mieko Murao</b> Designing Immersive Art Experience - An Exploration of Visuals and Sounds
<b>Naoki Kobayashi</b> The Effect of Providing Subsidies for Vehicles and Infrastructures to Shift toward a Low Carbon Passenger Car Mix	<b>Alessandro Lucioli</b> (February, 2022) Exploration of Disruption from Digital Transformation through the ARIES Framework Enterprise Element Model	<b>Tyler C. Niday</b> Enabling Disruptive Technology in High Growth Organizations when Architecting an Enterprise
<b>ByeongJo Kong</b> (See also S.M., Course VI) Analyzing Student's Problem-Solving Approaches in MOOCs Using Natural Language Processing	<b>Jacob Timothy Lueders</b> Investigating Opportunities to Improve Service Member Access to Non-Clinical Mental Health Resources	<b>Hyeyeon (Hannah) Oh</b> No Pressure!: Designing Mobile Interventions to Improve Pressure Relief Adherence for Individuals with Spinal Cord Injury through Diary Studies
<b>Nathan Eugene Krehbiel</b> Stakeholder Mental Model Alignment Influence on Mid-Stage Performance of New Product Engineering Teams	<b>Xueni Luo</b> (February, 2022) Application of Agile Development and Innovative Technology in the Structural Engineering	<b>Tomohisa Okamoto</b> (September, 2021) Comparative Analysis of Japanese and Western Corporate Venture Capital
<b>Aparna Ravikumar Kulkarni</b> Improving Electricity Supply in the Indian State of Odisha Using Under-the-Grid Micro-Grid Technology	<b>Elias Augusto Machado Roberty</b> (September, 2021) Predictive Analytics Applications for Oil and Gas Processing Facilities	<b>Chinelo Shirley Onuoha</b> Telehealth in Sub-Saharan Africa: A Human-Centered Design Approach on Bridging Gaps in Healthcare and Wellbeing Across the African Diaspora
<b>Hemant Kumar</b> (February, 2022) Hydrogen-Powered Cars: Is There a Role for Them in the Electrified U.S. Future?	<b>Gautam Madhivanan</b> (February, 2022) Applying Tradespace Exploration Methods to Remote Sensing System of Systems for Wildfire Detection and Management	<b>Montheep Parimontonsakul</b> (September, 2021) An Analytical Approach to Automate Stratigraphic Correlation Using Well Logging Information
<b>Nihara Rachel Kurian</b> Empowering Caregivers: Design Solutions to Enhance Knowledge and Confidence in Care by Improving Communications with Health-Care Providers	<b>Yuya Makino</b> Systems Thinking for Prioritizing Technology Research & Development in Public Administration	<b>David Sejin Park</b> Characterizing and Evaluating Student Dropout through Understanding Student Journey in a MicroMasters Program
<b>John Nathan Landsberg</b> Systems Architecting a Space Force Enterprise	<b>Indrayud Biswas Mandal</b> (September, 2021) A Systems Approach for Creation of Cost-Effective Tactile Graphics for Use by Students with Visual Impairments from Low-Income Backgrounds for Greater Educational Outcomes	<b>Liane Christine Peng</b> Encouraging Civic Engagement Through Playful Participatory Design
<b>Rachel Helen Le Vély</b> (February, 2022) Utilizing Enterprise Architecture Frameworks to Enable Successful Enterprise Transformation and Intended Enterprise System Emergence	<b>Cierra Danielle Martin</b> Everyone Needs a Seat at the Table: the Role of Participatory Design in Creating More Resilient & Equitable Food Systems	<b>Stephen Jeffrey Pickett</b> (February, 2022) Applying the Design Structure Matrix to Streamline the Development Process: Lessons from Marine Renewable Energy Development
<b>Wei-Ching Lin</b> (February, 2022) Socioeconomic Implication of Circular Economy: The Impact on Employment and Local Economy in the United States	<b>Jayanth Mohan Kumar</b> Evaluation of the Architecture for a Cable Actuated Robotic Platform for Agriculture as an Alternative to Existing Platforms	<b>Allison Mae Polly</b> (September, 2021) Toward Achieving the Energy Transition Through Corporate-University Partnerships
<b>John Chen-Chun Liu</b> Rethinking Consumption & Production - Systems and Lifestyle Emergence		<b>Kelsey Lynn Prestidge</b> (February, 2022) Digital Transformation in the Oil and Gas Industry: Challenges and Potential Solutions

**Cassie Ann Raazi**  
(February, 2022)  
(See also S.M., Real Estate Development)  
The Value of Flexibility in Lease Duration

**Karthik Rajasekaran**  
Integrated Design of Small Scale Third Generation Concentrated Solar Power Plants under Uncertainty

**María Risueño Domínguez**  
Part of the Furniture: Envisioning Furniture Futures Through Qualitative Research and Design

**Maxwell T. Robinson**  
(February, 2022)  
Technology Roadmap for Mobile Early Detection System for Devastating Crop Diseases

**Devaki Rani Sakhamuru**  
Techno-Economic Analysis and Strategic Decarbonization of the Indian Cement Industry

**Tareq Saqr**  
(February, 2022)  
Unsupervised Anomaly Detection with Application to Electric Motors

**Olivia Wen Seow**  
(See also S.M., Course VI)  
An Intuitive Tool for 3D Design Creation

**Jennifer Elizabeth Shafer**  
Creating a Cross-Disciplinary Understanding of Legacy Stories – What Does It Mean to Share a Legacy and What Do Storytellers Need?

**Yoshiki Shoji**  
Digital Transformation (DX) Ecosystem in Japan

**Yuya Sugio**  
Investigating the dDesign of the Retail Payment System: Focusing on the Retail Payment Sector in Japan

**Chun Hern Tan**  
(September, 2021)  
Enterprise Architecting for Tacit Knowledge Transfer: Sustaining Competitive Advantage

**Bagdat Toleubay**  
(September, 2021)  
Process Improvement and Policy Analysis in Oil and Gas Well Development and Construction through Applications of System Engineering and System Dynamics Concepts

**Yash Trivedi**  
Smart Home Technology Platform for the Aging Population

**Jared D. Tuinstra**  
(February, 2022)  
Speed Through Flexibility: Shortening the Acquisition Timeline of U.S. Defense Capabilities Using Flexible Systems

**Ekaterina Tyshchenko**  
Designing Cooperative Data Exchanges: Overcoming Privacy and Business Challenges When Corporations Want to Collaborate Using Privacy-Preserved Data

**Matthew Thomas Valcourt**  
(See also Naval E., Course II)  
Naval Submarine Maintenance: An Examination of Areas of Potential Availability Execution Risk

**Preeti Varma**  
Systems Thinking for Social Change

**Anahí Vega Sanchez**  
From Linear to Exponential: How SMEs Can Define the Future of Emerging Markets

**Kristen Marie Vilcans**  
Towards a Digital Engineering Initialization Framework

**John Kirkpatrick Ward**  
(September, 2021)  
A Systems Engineering Approach to Carbon Accounting Using System Theoretic Process Analysis (STPA)

**Mengke Wu**  
Delving the "Self-Construction" in the Era of Social Media

**Kerry Yujing Xie**  
Addressing Deficiencies in Asian American Pacific Islander (AAPI) Hate Crime Reporting: Designing a Solution for Community Needs

**Kiyohide Yasuhara**  
A Study on the Impact of Collaboration between Power Systems and Electric Vehicles on the Costs and CO<sub>2</sub> Emissions of Energy System

**Serhiy Y. Yemets**  
(September, 2021)  
Comparison of Discounted Cash Flow, Decision Analysis, and Flexibility in Design for Handling Uncertainty in Oil and Gas Capital Projects

**Edmund Jiekwon Yoon**  
Autonomous Vehicle Implementation into Existing Garrison Infrastructure

**Catherine Yu**  
Informational Analysis on US & China Platform Strategy: A Comparative Analysis

**Yuru Zhang**  
Innovation Dynamics between Original Equipment Manufacturers (OEMs) and Tier-1 Suppliers in the Automotive Industry

**Jonathan Pu Zhou**  
An IoT-based Pressure Injury Prevention System

**Ye Zhu**  
Smart Remote Personal Health Monitoring System: Addressing Challenges of Missing and Conflicting Data

## Master of Science in Transportation

**Lauren Elspeth Craik**  
Course I  
(See also M.C.P., Course XI)  
Congestion Pricing: Moving from Equity Analysis to Transportation Justice

**Ehab A. Ebeid**  
Course XI  
(See also M.C.P., Course XI)  
The Invisible Hand or the Handgun: Ride Hailing, Violence, and Political Settlements in the South African Urban Mobility Market

**Patrick Stephen Meredith-Karam**  
Course XI  
(September, 2021)  
(See also S.M., Technology and Policy Program)  
Exogenous Drivers of Public Transit and Ride-Hailing Ridership: A Study of Policy Intervention, COVID-19, and the Relationship between Ride-Hailing and Public Transit in Chicago

**John Takuma Moody**  
Course I  
(September, 2021)  
An Optimization-Based Qualitative/Algorithmic Approach to Transit Service Planning: Addressing the MBTA Green Line Extension

**Joseph R. Noszek**  
Course I  
Measuring Backtracking on Delivery Routes through Community Detection

**Alexander Michael Salz**  
Course I  
(September, 2021)  
The Potential for Using Transportation Network Companies as an Alternative to Transit Station Parking

### **Naval Engineer**

Course II  
*Department of Mechanical Engineering*

**Elliot James Collins**  
(See also S.M., Engineering and Management)  
A Method for Organized Institutional Learning in the Navy Shipbuilding Community

**Megan Jené Hagen**  
(See also S.M., Course II)  
Feasibility Analysis for a Nuclear-Powered Commercial Merchant Ship

**Christopher Nicholas Hein**  
(See also S.M., Engineering and Management)  
Quantifying Flexibility in Naval Ship Design

**Dayne Michael Howard**  
(See also S.M., Course II)  
Quantifying Extreme Event Statistics for Ship Motions and Loads Using Low-Fidelity Models and Recurrent Neural Networks

**Joshua James Malone**  
(See also S.M., Course II)  
The Impact of Electrical Standards on MVDC Shipboard Power Cable Size

**Scott David Oberst**  
(See also S.M., Course II)  
Investigation into the Design of High-Power Plug-In Shipboard Electrical Connectors

**Christopher Matthew Antonio Reynolds**  
(See also S.M., Course II)  
Relationship of Mechanical Deformations and Electrochemical Properties of Lithium Ion Batteries-An Experimental Study

**Matthew Thomas Valcourt**  
(See also S.M., Engineering and Management)  
Naval Submarine Maintenance: An Examination of Areas of Potential Availability Execution Risk

**Kelli Michelle Waterman**  
(See also S.M., Course II)  
Microchannel Thermal Management Analysis and Simulation Tool for Integration into Electronic Component Design

**Engineer in Computer Science**  
Course VI  
*Department of Electrical Engineering and Computer Science*

**Matthew Arthur Kilgore**  
(February, 2022)  
Fast Reducer Hyperobjects

## SCHOOL OF HUMANITIES, ARTS, AND SOCIAL SCIENCES

### Master of Applied Science in Data, Economics, and Development Policy

Course XIV  
*Department of Economics*

Pavarin Bhandtivej  
(September, 2021)

Raúl A. Castro Corona  
(September, 2021)

Juan Carlos Cisneros  
(September, 2021)

Megan Nicole Farrell  
(September, 2021)

Jannis O. Hamida  
(September, 2021)

Sui Yuan Han  
(September, 2021)

Wonjae Lee  
(September, 2021)

Adrienne Boehlert Luczkow  
(September, 2021)

Devin Whetstone Mauney  
(September, 2021)

Andrés L. Parrado  
(September, 2021)

Adrien Paul Marius Rose  
(September, 2021)

Ashley Vicary  
(September, 2021)

John Henry Walker  
(September, 2021)

### Master of Science in Political Science

Course XVII  
*Department of Political Science*

Emma Mary Campbell-Mohn  
(February, 2022)  
Paying for the Bomb

In Hee Kang  
(September, 2021)  
Group Heterogeneity and Affective  
Polarization within the Democratic Party

Helen Landwehr  
(See also S.M., Technology and Policy  
Program)  
Analyzing the Usability of Natural  
Language Processing for Detecting  
Disinformation Tactics, Techniques, and  
Procedures

### Master of Science in Science Writing

Course XXIW  
*Program in Writing and  
Humanistic Studies*

Anna Derby Blaustein  
(September, 2021)  
The Long Run: Inside the Race to Keep  
Young Female Runners Healthy and  
Performing at the Top of their Game

Robert M. Davis III  
(September, 2021)  
I, Dentist: Is Artificial Intelligence the  
Future of Oral Healthcare?

Alison Jordan Gold  
(September, 2021)  
Battle for the Dinner Table: Can Vegan  
Analogues Curb America's Reliance on  
Meat?

Elizabeth Anne Gribkoff  
(September, 2021)  
Caught in the Crosswinds: Rural America  
Could be Renewable Energy's Nemesis  
— or Its Savior

Kelsey Danielle Harper  
(September, 2021)  
"That Could Have Killed Me." How Anti-  
Fat Bias Can be Dangerous, Even Deadly,  
for Heavier Patients

Zain Humayun  
(February, 2022)  
Building a Better Internet

Alice Downing McBride  
(September, 2021)  
As the Starling Flies

Saima May Sidik  
(September, 2021)  
Humans Among the Clouds

Nafisa Syed  
(September, 2021)  
Bridging the Gaps between Screens: Can  
Telehealth Bring Mental Healthcare to  
Those Who Need It?

### Master of Science in Linguistics

Course XXIV  
*Department of Linguistics and  
Philosophy*

Devon Brett Denny  
Diné Bizaad Bitsisilé Bóhoo'aah: A Basis  
for Learning Navajo.

### Master of Science in Comparative Media Studies

*Program in Comparative Media  
Studies*

Laurel Anne Carney  
Wall-Walking and Other Bannable  
Offenses: Discipline and Deviant Play in  
World of Warcraft

Emily Elizabeth Grandjean  
Bodies, Land, and Instagram: Networked  
Foraging and Infrastructural Media in the  
United States

Tomás Andrés Guarna  
Trust Machines: Cryptocurrencies,  
Blockchains, and Humans In Cultures of  
Mistrust

Jay Jaeger Hawke  
Creation Through Destruction: Artifacts  
of Worldbuilding in Experiential Legacy  
Games

Alison Katrina Lanier  
The Rendered Body: Queer Utopian  
Thinking in Digital Embodiments

**G. R. Marvez**

Controversial Science Argumentation  
Skills for Teachers in the Digital Clinical  
Simulation *Discussion Leader*

## SLOAN SCHOOL OF MANAGEMENT

### Master of Business Administration

Course XV-A (Sloan Fellows)  
*Sloan School of Management*

Arvindan Badrinarayanan

Toluwase Olaolu Adesina

Gideon Majiyebo Adogbo

Rajan Aggarwal

Omolara Olusola Ajele

Guillermo Altenhordt

Mohammad Jamal Ashraf

Bhuvan Prasad Atluri

Purushottam Ram Nath Awasthi

Tomas D Andrea Balistiero

Yitzhak Balmas

Sebastian Julio Barriga Bermeo

Mohamed Riad Benchabane

Omar Benzit

Partha Biswas

Chelsea Holland Borchers

Gonzalo Brahm, Sr.

Mario Carandente

Mark Andrew Ballard Castleman

Gaurav Chadha

Samuel Christian Sy Chan

Manuel Gonzalo Chavez Anyosa

Daniel Cástulo Chávez Paniagua

Yoon Young Chung

Danilo Gabriel Ciccola

Paul Aaron Cole III

Candice Dawn Creecy

Jose Alfonso de la Campa

Pablo Delclaux Aznar

Gaurav Shekhar Deshpande

Anupam Dey

Michael Thomas Ernst

Boaz Fachler

Lindelwa Farisani

Benedicte Olivia Febe

Omer Feller

Carolina Soares Porto Fonseca

Alon Elazar Fooks

Christopher Glen Locandro Fort

Carmelo Graziano Gallitto

Nayelli García Ávalos

Felipe Gaviria

Ruben Ramon Grau Pujol

Amit Gupta

Erasmus Gyabaah-Frempah

Shiro Hatase

Junichi Hirokawa

Hisaya Hirose

Daisuke Ikegami

Can Traditional Japanese Companies Reinvigorate Middle Managers to Improve Their Competitive Advantages in a World of Uncertainty?

Jordan Bradley Jakubovitz

Adela Spring Jamal

Oloruntosin Tolulope Joel

Clayton Graham Jones

Anuja Kadian

Takeshi Kai

Pedro Esteban Kam Paw Molina

Maneet Kamboj

Ali Khedery

Sho Kikuchi

Hiroki Kiyoto

Amara Mohamed Konneh

Edgar Andrés Lazo Paz

Sea Young Ethan Lee

Wei Yang Lee

Arthur Rodrigues Lima

Yanbin Lin

Michael William Lipton

Kay Yin Regina Low

Huimin Ma

Ko Maeda

Mohit Malhotra	Philippe Anton de Castro Ricafort	Tarunpreet Walia
Salvador Enrique Martínez Corona	Juan Sebastián Roda Vivas	Taro Watanabe
Supriya Medapati	Efren Romero Benavente	Patrick Daniel Wegner
Javier Enrique Méndez Bonilla	Bryan Robert Rother	Sara Elena Williams
Ashlea Ann Meyer	Jaime Rubén Sáez Galleguillos	Aileen Wong
Paul Joseph Miller	Yukari Saiki	Itay Yehuda Yamin
Taizo Miyato	Satoru Saito	Rodrick Ybanez
Friedrich Andreas Moeckel, MD	Yu Sakamoto	Seungho Yoon
Roberto Molina	Hiroyuki Sera	Sosuke Yoshikawa
Clifford Reginald Nau	Puneet Shah	Luyang Zhang
Guillaume A. E. G. Navez	Vikram Vikas Sharma	Yuqing Zhang
Hidefumi Nogami	Evgeny Sheenko	<u>Master of Business Administration</u>
James Michael O'Mara	Charles Sutton Siedlecki, Jr.	Course XV-E (Executive)
Gemma Odena Bultó	Vitor Silveira Bueno	<i>Sloan School of Management</i>
Kazumi Ohno	Adam Robert Sinovsky	Heba Samy Abdelbaky
John Bosco Acot Okello	Tomohito Soyama	Hardeep Singh Ahluwalia
Hock Boon Ong	Padmapriya Srinivasan	Jose Alonso Albarracin Rodriguez
MingHsin Pai	Ioannis Stathis	Cedric Francois Alexanian
Nishant Pandey	Alexandra Isabel Suarez	Sabreen Syeda Alikhan
Gyorgy Paris (February, 2022)	Takuya Takagi	Jean Carlos Alonso Gomez
William Adam Parrish	Toshio Taki	Bharatheesh K. Ananth
Mikael Petrosyan	Teruhisa Tsuji	Franklin Enrique Angulo Fernandez
Harsha Vardhini Pogunul Srinivasalu	Horacio Manuel Vaccare Fuster	Allen Todd Atchley
George David Potts	Manuel Jesus Velasquez Ruiz, Sr.	Alexey Vladimirovich Avdokhin
Meera Ravi	Meera Venu	Saurabh Awasthi
Shuyang Ren	Ricardo A. Villalba	Ryan Joseph Bachman
		Adil Bahadoor

Krishna Chaitanya Balantrapu	Melissa Anne Estok	Ramalingam Konduru How Can You Take a Business Model and Apply across Different Industry?
Antonio Jermaine Barnes	Cleidy Liborio Fernandes	
Justin Alexander Bass	Belen Fraile Ortiz	Kenneth Kyung-il Kwak
Ryan Raymond Beaudry	Phani Gadde	Mark Andrejs Laivins
Jeffrey Beligotti	Cayetano Gea-Carrasco	Lien Hong Le
Miriam A. Bredella	Naji Gehchan	Stephanie Christine Licata
Robert Douglas Bruce	Erin-Michael Gill	Rhie-young Lim
Alejandro Canete Baez	Jason Aaron Gluck, DO	Anton Lisnychyi
Rachel Peters Card	Lisa Goel	James Bradford Lupton
Kala Chandramouli	Ismael Gomez Charles	Megan Cora Luu
Melissa Roberts Chapman	Julie Diana Grosvenor	Nicola M. Lynch
Che-Wen Chen	Daphne Adele Haas-Kogan	Ian Douglas MacGregor
Celine Kaouthar Cherif Torzsok Mar-siglia	Ellen Catherine Handly	Ahmed Samir Mady
Kevin Cheung	Matthew Boyd Harrington	Kengo Makita
Thomas Arthur Seydou Coulibaly	Melissa Lee Herman	James Christopher Malone III
Christy Fernandez Cull Optimizing Pricing for Smart Garments	Amy Lynn Herzog	Irina Mandzhieva
Mitu Dahiya	Christopher Hoye	Andrea Nicole Matison
Joseph Henry Dayan	Jillian J. Irizarry	Michael Edward McLaughlin
Vanessa M. DeGennaro	Casey Adam Jackman	Christopher Meewes
Lauren Nahir De Jesús	Farukh Javed	Andrew Jackson Miller III
Gaurav Dhir	Jennifer Johns	Justin Murray Moore
Abid Ali Dobani	Richard J. Johnson	Tonika Morgan
Tolga Durak	Stephen Ellison Johnston	Joseph Richard Mundinger
Brian Aden Edge	Hélène Juillard	Santosh Gopal Nachu
Rhamey Abdelmonem Elhosseiny	Maheen Junaid	Yosuke Nakashima
Anthony Angelo Enzor-DeMeo	Naveed Khawar	Kaveh Nedamat
		Paul Linh Nguyen

Dane Christian Nielsen Advanced Strategy & Innovation	Jeloni Musa Shabazz	John Jiang Yu
Amre Mohamed Nouh	Anar Jyotindra Shah	<u>Master of Business Administration</u> Course XV <i>Sloan School of Management</i>
Mark Alexander Novas	Bijal Sheth	
Kent William Nygren	Kartik Sinha	
Mojolaoluwa Ola	Romel Somavat	Jeanelle Lauren Ackerman
Francisco Antonio Olmos	Manish Srivastava	Oluwabukunmi Adabonyan
David Matthew Ortiz	Rajiv Srivastava	Taleen Marie Afeyan
Nelson Ossorio Flores	Joe Louis Stanford III	Danielle Catherine Ager
Edward Padula	Joseph Philip Starzec	Patrick C. Akujobi
Vassiliki Papadimitrakopoulou	José Antonio Suaya Grezzi	Yousef Waleed Al-Humaidhi
Genevieve Paquette	Vyshnavi Suntharalingam	Jacob Gordon Alchek
Ramya Parameswaran	Sripriya Thinagar	Beatriz Aldereguia Pons
Sheetal Naveen Patel	Ponnarathneary Ting (February, 2022)	Mishary Y. Alessa
Fiton Peja	Heidi A. Toland	Sarah Allibhoy
Ahmet Omer Poroy	Nitin Tyagi	<b>Christian Alexander Allinson</b> (See also S.M., Course VI) Enabling Proactive Quality in Commercial Airplanes Using Natural Language Processing
Ram Kumar Puppala	Cheerag Dipakkumar Upadhyaya	Jennifer Marie Amlani (See also S.M., Course II) Equipment Installation Quality Improvement
Alexander Grigorios Ragias	Praveen Tiruchirappalli Vaidyanathan	Faidon Anagnostopoulos
Rajesh Ramachandran	Dario Cesar Valdizan	Nkiruka Sophia Anizoba
Ravisankar Ramadas	Julien Vandewalle	Thomas Glen Ankenbauer
Rahul H. Rathod	Lily Kang Wang	Shilpa Dilip Apte
Peter John Roeber	Leslie Weber	Yaw Benjamin Asamoah
Daniel Alejandro Rosales Roche	Yue Wang Webster	Alex Aserraf Bentata
Sumantra Roy	Maxwell Jeffrey Wilson	Abenezer Nardos Awlachew
Blaire Kelvin Ryan	Fei-Shiuann Clarissa Yang	Harrison Chapman Bacon
Michael John Schmidt	Robert Yunchuan Yang	
Oxana Serebrennikova	Nora Yousif	

Basant M. Badr	Patrick Roycroft Campbell	Mauro Alessandro Colantonio
Yasmin Mohamed Badr	Amanda Carbonneau	Jonathan C. Conway
Yousaf Nadir Bajwa	Daniel Cardenes Estelles	Deirdre McNary Corley
Moises Jaime Baly Rodriguez	Louisa Wilde Carman	Benjamin McNab Crawford
Christopher Ryan Banks	Sebastian Carreno Leandro	Anthony Alexander Cruz
Kaylie Barger	Taylor Bryce Carter	Christopher Michael Cubra (See also S.M., Course II) Automating Data-Driven Decisions to Improve Key Financial and Operational Metrics in Semiconductor Manufacturing
Edward S. Becker IV	Seamus Patrick Cassidy	Ian Alloway Culver
Francesca Bencini Vivar	Gustavo Castillo, Jr. (See also S.M., Course II) Using Electric Vehicles for Grid Services: Capacity Available and Applications for Electric Utility Commercialization	Tomás Pedro Bexiga Roque da Cunha
Alexander Scott Berry	Matilda Fatoumatta Ceesay	Robert Alan Cunningham
Claire Victoria Beskin	Emily Darwin Cetlin	Emma Currier
Ruchie Bhardwaj	Bo Yu Chan	Patrick Ryan Curtis
Mihir Bhushan	Ying-Ju Alice Chen	John Matthew Chao Cusick
Sarah Lisanne Black	Yudou Chen	Hung Dinh Dang
John Michael Blasberg, Jr.	Maria Alejandra Chia Garcia	Supratim Das (See also Ph.D., Course X)
Maya Sara Bobrovitch	Erica Chiang	Gabriel de Abreu Rabello
Charles H. Bolton	Luke Chung-I Chiang (See also S.M., Course II) Framework and Analytics for Emissions Forecasting and Planning	Jose Tomas De Gregorio
Daniel John Borchik (See also S.M., Course XVI) Exploring the Application of Lean Processes Enhanced by Digital Archiving in Precision Subtractive Manufacturing	Arthur Yoonhwan Choi	Carlos Maria de Palacio Gaytan de Ayala
John Scott Bowers	Jung Hwan Choi	Inigo Javier de Palacio y Gaytan de Ayala
Brittany Rachel Brody	Brittny Chong	Tarina De Rito
Samuel Turner Brown	Alex Christofferson	Alexandre de Villiers de La Noue
Kurt Thomas Bullard	Kasidis Chutima	Francisco Decrescenzo Cortes Analysis on the Effectiveness of the Estate Tax in the United States
Ryan Michael Byrne	James Michael Clarizio	Luis De la Torre Fernández
Cesar Caixeta Ferreira	Joshua Oren Cohen	
Patricia Camarero Ruiz		
James Thomas Camp		

<b>Austin C. de Maillé</b> (See also S.M., Course II) Operations Strategy for the Mass Customization of Additively Manufactured Anatomical Models, Surgical Guides, and Implants	<b>Santiago Falcão</b>	<b>Veer Gangwal</b>
<b>Devika Dhawan</b>	<b>Olivia D. Farrell</b>	<b>Richard Bradley Ganz</b>
<b>Francesco Di Fonzo</b>	<b>Patrick Erickson Fay</b>	<b>Sophie Weiwei Gao</b>
<b>Nestor Alexander Diaz-Ordaz</b>	<b>Eric Feddersen</b>	<b>Andres Garza Villarreal</b>
<b>Dan Ding</b>	<b>Michelle Angela Feole</b> (See also S.M., Course I) Optimizing the Supply Chain Design for Sourcing and Supply of Critical Materials	<b>John Francis George</b>
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<b>Tyler J. Eggleston</b> (See also S.M., Course II) Capacity Multipliers: Rapidly Scaling Production through Line Balancing and Critical Path Reduction	<b>Rafaella Mollerstrand Fontes</b>	<b>Matias Rodrigo Gonzalez-Bunster</b>
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<b>David Afolabi Fagbola</b>	<b>Amit Galgali</b> (See also S.M., Course II) Prototyping of Injection EVA Foam Footwear Midsoles	<b>Ravisara Grover</b>
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Luke Richard Higgins (See also S.M., Course II) The Playbook - A Novel Approach to Identifying Opportunity for on Machine Measurement and Adaptive Machining Projects		Ryan J. Kim
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<b>Daniel Sákovics Matutes</b>	<b>Shinya Shinoda</b>	<b>Ryan Edward Strobel</b>
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Targeting Seasonal Marketing Campaigns: Rebalancing Exploration and Exploitation

**Alex Vernon Moehring**  
(February, 2022)  
News Feeds and User Engagement: Evidence from the Reddit News Tab

**Fiona Paine**  
Big Data and Firm Risk

**Eppa Rixey V**  
Legitimacy-Centric Regulatory  
Disruption: Revitalizing Communities  
and Competition in a Mature, Regulated  
Market

**Paige Melendy Wyler**  
(See also M.B.A., Course XV)  
Developing a Decision-Making  
Framework for Carbon: Incorporating  
Carbon into Optimized Business  
Objectives

**Maria Tiurina**  
Tornado in Credit Desert: the Role of  
Consumer Credit Access in the Disaster  
Recovery, Evidence from Arkansas

**Emma Benz van Inwegen**  
More Choices or Help Choosing?:  
Experimental Evidence on Helping Firms  
Hire

**Gabriel Medaglia Voelcker**  
Persistent Costs of Disclosure Exemption  
Regulation

**Rachel Seou Yoon**  
Taxes and Product Market Outcomes:  
Asymmetric Effects of Tax Cuts on  
Winners v. Losers

**Alan Zhang**  
(September, 2021)  
Regenerative Coordination: Working for  
a Living Service

**Master of Science in Operations**  
**Research**  
*Sloan School of Management in  
conjunction with the Schwarzman  
College of Computing*

**Lindsey Blanks**  
Operational Scheduling of Deep Space  
Radars for Resident Space Object  
Surveillance

**Ken Groszman**  
(See also M.B.A., Course XV)  
Sequential Optimization for Prospective  
Customer Segmentation and Content  
Targeting

**Samuel Stone Humphries**  
Analytics for a Carbon-Free World

**Yumeng Niu**  
Optimal Targeting Under Gender  
Fairness

**Stanislav Ivaylov, Slavov**  
Causal Inference: Heterogeneous Effects  
and Non-stationary Environments

## SCHOOL OF SCIENCE

### Master of Science in Chemistry

Course V

*Department of Chemistry*

**Aaron Liu**

Site-Selective C-H Bond Diversification of Glycosides

**Alexander Edward Seim**

Catalytic Reactions of Organoboranes

### Master of Science in Biology

Course VII

*Department of Biology*

**Kathleen Whitmore Higgins**

(September, 2021)

PRMT5 Inhibitors in Merkel Cell Carcinoma

### Master of Science in Microbiology

Course VII

*Department of Biology*

**Samantha Leigh Edelen**

(September, 2021)

Exploring Protoheme IX Farnesyltransferase as an Antimalarial Drug Target.

### Master of Science in Physics

Course VIII

*Department of Physics*

**Suzannah Alcyone Fraker**

(February, 2022)

Deep Learning for the KamLAND-Zen Search for  $0\nu\beta\beta$

**Yuki Tatsumi**

(September, 2021)

Magneto-Thermal Transport and Machine Learning-Assisted Investigation of Magnetic Materials

### Master of Science in Brain and Cognitive Sciences

Course IX

*Department of Brain and Cognitive Sciences*

**Paloma Sánchez-Jáuregui Ramírez**

(September, 2021)

Microfluidics for Calcium Imaging of *C.elegans* Neurons During Temporally Precise Odor Stimulation

### Master of Engineering in Computation and Cognition

Course VI-9

*Department of Brain and Cognitive Sciences*

**An Jimenez**

Predicting Cognitive Reflection from Digital Fingerprints

**Jason Madeano**

Learning to Solve Complex Tasks by Growing Knowledge Culturally across Generations

### Master of Science in Earth and Planetary Sciences

Course XII

*Department of Earth, Atmospheric, and Planetary Sciences*

**Elise Margaret Cutts**

Marine Carbohydrate-Active Enzymes Illuminate Microbial Ecology, Evolution, and Carbonate Precipitation

**Megan Elisabeth Guenther**

Origin of the Lunar Ultramafic Glasses Constrained by Experiments and Models

**Mathilde Emilie Pauline Wimez**

Systematic Exploration of a Volcanic Long-Period Earthquake Swarm with a Recursive Matched-Filter Search

## **AWARDED JOINTLY WITH THE WOODS HOLE OCEANOGRAPHIC INSTITUTION**

### **Master of Science in Mechanical Engineering**

**Daniel Wilson Goodwin**

Course II

(September, 2021)

Environmental Effects of the Beaufort Lens on Underwater Acoustic Communications during Arctic Operations

**Jacob Peter Heuss**

Course II

(September, 2021)

Reduced Order Modeling for Stochastic Prediction and Data Assimilation Onboard Autonomous Platforms at Sea

**Bradli Anne Howard**

Course II

(September, 2021)

Multi-Path Penalty Metric in Underwater Acoustic Communication for Autonomy and Human Decision-Making

**Jesse Rowe Pelletier**

Course II

(February, 2022)

Human-Autonomy Teaming for Improved Diver Navigation

**Kyle Robert Kausch**

Course XII

(September, 2021)

Characterizing the Impact of Underwater Glider Observations on the Navy Coastal Ocean Model (NCOM) in the Gulf Stream Region

**Peter Albert Roemer**

Course XII

(September, 2021)

Stratification Dynamics in the Beaufort Gyre

### **Master of Science in Marine Geology and Geophysics**

**Faith Joan Duffy**

Course XII

An Inverse Modeling Approach to Investigate Deep Ocean Ventilation from Radiocarbon Records

### **Master of Science in Physical Oceanography**

**Timothy Ryan Getscher**

Course XII

(September, 2021)

Observing and Quantifying Kinematic Properties and Lagrangian Coherent Structures of Ocean Flows using Drifter Experiments

## SCHOOL OF ARCHITECTURE AND PLANNING, DOCTORAL

### **Doctor of Philosophy**

School of Architecture and Planning

#### **Ishwarya Ananthabhotla**

(February, 2022)

Thesis in the field of Media Arts and Sciences: Cognitive Audio: Enabling Auditory Interfaces with an Understanding of How We Hear

#### **Yu Qian Ang**

Thesis in the field of Architecture: Building Technology submitted to the Department of Architecture: Using Urban Building Energy Modeling to Develop Carbon Reduction Pathways for Cities

#### **Isadora Araujo Cruxê**

(February, 2022)

Thesis in the field of Political Economy, Development and Planning submitted to the Department of Urban Studies and Planning: Disordering Capital: The Politics of Business in the Business of Water Provision

#### **Alpha Yacob Arsano**

(February, 2022)

Thesis in the field of Architecture: Building Technology submitted to the Department of Architecture: Climate-Carbon-Equity: Making Sustainable Design Concepts Accessible for All

#### **Norhan Bayomi**

(September, 2021)

Thesis in the field of Architecture: Building Technology submitted to the Department of Architecture: Heat Vulnerability and Risk Analytics for the Built Environment

#### **Andrew David Richmond Binet**

(September, 2021)

Thesis in the field of Urban and Regional Planning submitted to the Department of Urban Studies and Planning: Making the City Livable: Caregiving and Health in Gentrifying Boston

#### **Johnna Cressica Brazier**

(September, 2021)

Thesis in the field of Urban and Regional Planning submitted to the Department of Urban Studies and Planning: Mobile Carbon Footprinting: Sensing and Shaping the Carbon Emissions of Daily Activities Using Digital Technologies

#### **Joy Adowaa Buolamwini**

(February, 2022)

Thesis in the field of Media Arts and Sciences: Facing the Coded Gaze with Evocative Audits and Algorithmic Audits

#### **Colleen Chiu-Shee**

(September, 2021)

Thesis in the field of Urban and Environmental Planning and Design submitted to the Department of Urban Studies and Planning: Ecological City Design and Planning: How China Expands Urban Ecology, Institutional Learning, and Cultural Shifts through the Evolving Eco-Developments

#### **Eric Chu**

(February, 2022)

Thesis in the field of Media Arts and Sciences: Learning Human Beliefs with Language Models

#### **Walker Peterson Downey**

Thesis in the field of Architecture: History and Theory of Art submitted to the Department of Architecture: Resonant Bodies: Pauline Oliveros, David Tudor, and Music Mediated, 1950–1980

#### **Abhimanyu Dubey**

(February, 2022)

Thesis in the field of Media Arts and Sciences: Private and Provably Efficient Federated Decision-Making

#### **Jesse Noah Feiman**

(February, 2022)

Thesis in the field of Architecture: History and Theory of Art submitted to the Department of Architecture: Adam von Bartsch (1757–1821) and the Invention of the Original Printmaker

#### **Paloma Francisca Gonzalez Rojas**

(September, 2021)

Thesis in the field of Architecture: Design and Computation submitted to the Department of Architecture: Machine Learning Simulation of Pedestrians Exploring the Built Environment

#### **Daniel Robert Goodwin**

(February, 2022)

Thesis in the field of Media Arts and Sciences: Highly Multiplexed Molecular Mapping of Biological Samples via Integrated Experimental and Computational Technologies

#### **Alexis Hope Gottlieb**

(September, 2021)

Thesis in the field of Media Arts and Sciences: Designing Hackathons for Justice and Joy: Participatory, Narrative, and Artistic Approaches

#### **Charles Joseph Holbrow**

(September, 2021)

Thesis in the field of Media Arts and Sciences: Fluid Music

#### **Kristina Teresa Johnson**

(September, 2021)

Thesis in the field of Media Arts and Sciences: Foundations of Full-Stack Neuroscience for Neurodiverse Individuals via Personalized, Naturalistic Studies

#### **Shannon Leigh Johnson**

Thesis in the field of Media Arts and Sciences: Simultaneous, Large Multi-Gene Delivery for Implementation of Fluorescent Reporter Spatial Multiplexing to Image Signaling Pathways

#### **Johnathan J. Kongoletos**

Thesis in the field of Architecture: Building Technology submitted to the Department of Architecture: Airflow in Interior Spaces: Implications on Comfort and Health

#### **Eman Abdelhalim Lasheen**

Thesis in the field of Urban Planning and International Development submitted to the Department of Urban Studies and Planning: Against the Grain: A History and Policy Analysis of Rice, Water and the Edible Landscape in Egypt

**Albert José Antonio López**  
(September, 2021)  
Thesis in the field of Architecture: History and Theory of Architecture submitted to the Department of Architecture: The Integrated State: Architecture, Planning, and Politics in Mexico, 1938-1958

**Mostafa Mohsenvand**  
(February, 2022)  
Thesis in the field of Media Arts and Sciences: Classifying and Displaying Brain-Waves through Self-Supervised Learning

**Ken Nakagaki**  
(September, 2021)  
Thesis in the field of Media Arts and Sciences: 'Shells' and 'Stages' for Actuated TUIs: Reconfiguring and Orchestrating Dynamic Physical Interaction

**Ariel Noyman**  
Thesis in the field of Media Arts and Sciences: CityScope: An Urban Modelling and Simulation Platform

**Daniel David Oran**  
(September, 2021)  
Thesis in the field of Media Arts and Sciences: Implosion Fabrication: Rethinking 3D Nanofabrication from First Principles

**Athina Papadopoulou**  
(February, 2022)  
Thesis in the field of Architecture: Design and Computation submitted to the Department of Architecture: Affective Matter: A Haptic Material Modality for Emotion Regulation and Communication

**Andrew Colin Payne**  
(September, 2021)  
Thesis in the field of Media Arts and Sciences: Scalable Methods for Spatial Genomics

**Rida Qadri**  
(February, 2022)  
Thesis in the field of Computational Urban Science submitted to the Department of Urban Studies and Planning: Drivers of Disruption: How Jakarta's Mobility Platform Drivers Understand, Transform and Resist the Algorithms that Manage Them

**Carlos Emilio Sandoval Olascoaga**  
(September, 2021)  
Thesis in the field of Architecture: Design and Computation submitted to the Department of Architecture: Drawing Participation: Histories of Geospatial Computing, Professional Silos, and Computational Potentials for Collaboration in Planning and Design

**Dorothy Shun Wai Tang**  
Thesis in the field of Urban and Regional Planning submitted to the Department of Urban Studies and Planning: Infrastructural Landscapes: The Technopolitics of Watershed Planning in Asia

**Laura Sara Wainer**  
(February, 2022)  
Thesis in the field of Urban and Regional Planning submitted to the Department of Urban Studies and Planning: The Informalization of Formal Housing Projects in the Global South: Policy Failure or Counterhegemonic City-Making?

**ElDanté Christopher Winston**  
Thesis in the field of Architecture: History and Theory of Architecture submitted to the Department of Architecture: Power and Punishment: Architecture and Violence in the Italian Renaissance

## SCHWARZMAN COLLEGE OF COMPUTING, DOCTORAL

### **Doctor of Philosophy**

Schwarzman College of Computing

#### **Paolo Mikael Bertolotti**

(February, 2022)

Thesis in the field of Social and Engineering Systems and Statistics submitted to the Institute for Data, Systems, and Society: Inference and Diffusion in Networks

#### **Eaman Jahani**

(February, 2022)

Thesis in the field of Social and Engineering Systems and Statistics submitted to the Institute for Data, Systems, and Society: Network Effects on Outcomes and Unequal Distribution of Resources

#### **Bomin Jiang**

(September, 2021)

Thesis in the field of Social and Engineering Systems submitted to the Institute for Data, Systems, and Society: Identification and Robustness in Central Banking and Supply Chain

#### **Hanwei Li**

Thesis in the field of Social and Engineering Systems submitted to the Institute for Data, Systems, and Society: Estimation and Optimization in Online Marketplaces

#### **Minghao Qiu**

(September, 2021)

Thesis in the field of Social and Engineering Systems submitted to the Institute for Data, Systems, and Society: Impacts of Energy and Environmental Policies on Air Quality: Bridging Observational Data, Statistical, and Atmospheric Models

#### **Manxi Wu**

(September, 2021)

Thesis in the field of Social and Engineering Systems submitted to the Institute for Data, Systems, and Society: Information, Learning, and Incentive Design for Urban Transportation Networks

#### **Qi Yang**

(September, 2021)

Thesis in the field of Social and Engineering Systems submitted to the Institute for Data, Systems, and Society: Partisanship, Friendship, and Censorship in Online Social Networks

#### **Yuan Yuan**

(September, 2021)

Thesis in the field of Social and Engineering Systems and Statistics submitted to the Institute for Data, Systems, and Society: Understanding and Reshaping Social Networks with Advanced Computational Techniques

# SCHOOL OF ENGINEERING, DOCTORAL

## **Doctor of Science**

School of Engineering

### **Oliver Jia-Richards**

Thesis in the field of Space Propulsion and Controls submitted to the Department of Aeronautics and Astronautics: Exploration of Planetary Bodies with Electrospray Thrusters

### **Suhas Subramanya Kowshik**

Thesis in the field of Electrical Engineering and Computer Science: Non-Asymptotic Behavior in Massive Multiple Access and Streaming System Identification

### **Joshua Ka-Wing Lee**

(September, 2021)  
Thesis in the field of Electrical Engineering and Computer Science: Maximal Correlation Feature Selection and Suppression with Applications

### **Benjamin Lienhard**

(September, 2021)  
Thesis in the field of Electrical Engineering and Computer Science: Machine Learning Assisted Superconducting Qubit Readout

### **Catherine Aiko Lockton**

(September, 2021)  
Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Quantum State Discrimination with Overcompleteness

### **Aramael Andrés Peña-Alcántara**

Thesis in the field of Civil Engineering and Computation submitted to the Department of Civil and Environmental Engineering: A Subject Based Methodology for Measuring Interclass Bias in Facial Recognition Verification Systems'

### **Gianluca Roscioli**

(February, 2022)  
Thesis in the field of Materials Science and Engineering: Failure of Martensitic Sharp Edges: A Micro-Mechanical Exploration for Design Guidelines

### **Oscar A. Viquez Rojas**

Thesis in the field of Mechanical Engineering: Vehicle Autonomy Under the Arctic Ice: Environmental Adaptation through Model-Aided Machine Learning

### **Shaolou Wei**

(February, 2022)  
Thesis in the field of Materials Science and Engineering: Overcoming the Limits of Strain-Induced Martensitic Transformation in Metastable Face-Centered Cubic Alloys

## **Doctor of Philosophy**

School of Engineering

### **Navid Abedzadeh**

Thesis in the field of Electrical Engineering and Computer Science: Techniques for Reducing Beam-Induced Damage in Electron Microscopy

### **Weeraratna Patabendige Maleen**

**Hasanka Abeydeera**  
(September, 2021)  
Thesis in the field of Electrical Engineering and Computer Science: Scalable and Broad Hardware Acceleration through Practical Speculative Parallelism

### **Youssef Medhat Aboutaleb**

(February, 2022)  
Thesis in the field of Econometrics and Statistics submitted to the Department of Civil and Environmental Engineering: Theory-Constrained Data-Driven Model Selection, Specification, and Estimation: Applications in Discrete Choice Models

### **Sara Achour**

(September, 2021)  
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Compilation Techniques for Reconfigurable Analog Devices

### **Angela Josephine Acocella**

(February, 2022)  
Thesis in the field of Transportation submitted to the Department of Civil and Environmental Engineering: Alternative Freight Contracts: Data-Driven Design Under Uncertainty

### **Adedayo Olumayowa Aderibole**

Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Power Line Communication for Low-Data-Rate Energy Control

### **Akshat Agarwal**

(September, 2021)  
Thesis in the field of Aerospace, Energy, and the Environment submitted to the Department of Aeronautics and Astronautics: Quantifying and Reducing the Uncertainties in Global Contrail Radiative Forcing

### **Anish Agarwal**

Thesis in the field of Electrical Engineering and Computer Science: Causal Inference for Social and Engineering Systems

### **Shashank Agarwal**

Thesis in the field of Mechanical Engineering: Reduced-Order Modeling of Granular Intrusions Driven by Continuum Approaches

### **Yash Agarwal**

Thesis in the field of Biological Engineering: A Materials-Based Approach for Localized Delivery of Cancer Immunotherapy

### **Alexa Christine Aguilar**

Thesis in the field of Aeronautics and Astronautics: Multiple Simultaneous Optical Links for Space-Based Platforms

### **Sebastian Gerd Ahling**

(September, 2021)  
Thesis in the field of Mechanical Engineering: Elements of Lubricant Transport Critical to Piston Skirt Lubrication and to Leakage into the Piston Ring Pack in Internal Combustion Engines

### **Haluk John Akay**

Thesis in the field of Mechanical Engineering: Representing Knowledge for Data-Driven Design

**Karthik Akkiraju**

(February, 2022)

Thesis in the field of Materials Science and Engineering: Trends in C-H Bond Dehydrogenation Energetics for Small Molecule Conversion

**Mohammad S Kh F Sh AlAdwani**

(September, 2021)

Thesis in the field of Civil and Environmental Engineering: On Equilibria and Feasibility of Ecological Polynomial Dynamical Systems

**Keenan Eugene Sumner Albee**

Thesis in the field of Autonomous Systems submitted to the Department of Aeronautics and Astronautics: Online Information-Aware Motion Planning with Model Improvement for Uncertain Mobile Robotics

**Omar Abdulfattah AlDajani**

Thesis in the field of Geotechnical and Geoenvironmental Engineering submitted to the Department of Civil and Environmental Engineering: Hydraulic Fracturing Behavior of Opalinus Shale: A Framework, Experimentation & Insights

**Fahad Alhasoun**

(September, 2021)

Thesis in the field of Computational Science and Engineering submitted to the Department of Civil Engineering and Environmental Science: Towards Generalization of Models on Streets Imagery: Methods and Applications

**Giulio Alighieri**

(February, 2022)

(See also S.M., Course X-A)

Thesis in the field of Chemical Engineering: Scaling up Genetic Circuits in Mammalian Cells: A U1-snRNA-based Platform Enables Mammalian Cells to Compute the Bitwise Inversion of the Square Root of a Number

**Gregory William Allan**

Thesis in the field of Aeronautics and Astronautics: Phasing of Ground-based Optical Arrays for Space Applications

**Tarfa Alrashed**

Thesis in the field of Electrical Engineering and Computer Science: Systems to Democratize and Standardize Access to Web APIs

**Scott Thomas Alsid**

Thesis in the field of Nuclear Science and Engineering: High-Sensitivity Nitrogen Vacancy Center Magnetometry: From DC to GHz

**Alexander A. Amini**

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: End-to-End Learning for Robust Decision Making

**Wei An**

Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Guessing Random Additive Noise Decoding(GRAND), from Performance to Implementation

**Melodi N. Anahtar**

(February, 2022)

Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Protease Activated Nanosensors for the Noninvasive Diagnosis of Community-Acquired Pneumonia

**Daniel Allen Anderson**

(September, 2021)

Thesis in the field of Biological Engineering: Competition-Based CRISPR-dCas9 Transcriptional Control Mechanisms and Application of dCas9 Biosensors for Hightthroughput, Cell-Based Protease Inhibitor Screens

**Nina Andrejevic**

(February, 2022)

Thesis in the field of Materials Science and Engineering: Machine Learning-Augmented Spectroscopies for Intelligent Materials Design

**Ian Wayne Andrews**

Thesis in the field of Biological Engineering: Approaches to Investigating Antibiotic Efficacy and Discovery of Treatment Strategies against Antibiotic Tolerance

**Marc-Joseph Antonini**

(September, 2021)

Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Customizing Multifunctional Bidirectional Neural Interfaces through Fiber Drawing

**Minoru Brandon Araki**

(September, 2021)

Thesis in the field of Electrical Engineering and Computer Science: Learning to Plan by Learning Rules

**Sujay Dilip Bagi**

(September, 2021)

Thesis in the field of Mechanical Engineering: High-Throughput Synthesis of Metal–Organic Frameworks in a Continuous Flow Reactor

**Nathaniel K. Bailey**

Thesis in the field of Transportation submitted to the Department of Civil and Environmental Engineering: Dynamic Ridesharing under Travel Time Uncertainty: Passenger Preference and Optimal Assignment Methods

**Akash Bajaj**

(February, 2022)

Thesis in the field of Computational Materials Science and Engineering submitted to the Department of Materials Science and Engineering: Improving First-Principles Based Methods for Correlated Materials Modeling

**Sean Bozkurt Ballinger**

Thesis in the field of Applied Plasma Physics submitted to the Department of Nuclear Science and Engineering: Modeling of Boundary Transport and Divertor Target Heat Flux - Implications for Advanced Divertor Concepts

**Yujia Bao**

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Efficient and Robust Algorithms for Practical Machine Learning

**Ricardo Miguel Santos Baptista**

Thesis in the field of Computational Science and Engineering: Stochastic Modeling and Likelihood-Free Inference Using Triangular Transports

<b>Marc Barbar</b> Thesis in the field of Electrical Engineering and Computer Science: Decision-Making Under Uncertainty for Electric Power System Operation and Expansion Planning	<b>Mohammed Benzaouia</b> (February, 2022) Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: On Applications of Resonances, from One to Infinity	<b>Ki-Jana B. Carter</b> Thesis in the field of Materials Science and Engineering: Computational Methods for Small-Molecule Transparent Semiconductors
<b>Favyen Bastani</b> (September, 2021) Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Label-Efficient and Compute-Efficient Video Analytics	<b>Brij M. Bhushan</b> (February, 2022) Thesis in the field of Mechanical Engineering: Electrostatically Levitated Object Handoff to Minimize Wear and Particle Generation	<b>Orhan Tunç Çeliker</b> (February, 2022) Thesis in the field of Electrical Engineering and Computer Science: Automated Cellular Identity Assignment in <i>C. elegans</i> Using Differential Gene Expression
<b>David Bau III</b> (September, 2021) Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Dissection of Deep Neural Networks	<b>Andrew Michael Biedermann</b> Thesis in the field of Chemical Engineering: An Integrated Approach to Enable Rapid Scalable Upstream Production of Subunit Vaccines with <i>Pichia pastoris</i> ( <i>Komagataella phaffii</i> )	<b>Woo Hyun Chae</b> Thesis in the field of Materials Science and Engineering: Development of Solution-Processed Stable Silver Nanowire Networks for Transparent Electrodes
<b>Aaron S. Baumgarten</b> (September, 2021) Thesis in the field of Aerospace Computational Engineering submitted to the Department of Aeronautics and Astronautics: Development of Models for Mixtures of Fluids and Granular Sediments	<b>Rebecca Mae Black</b> Thesis in the field of Biological Engineering: Understanding the Differential Effects of Dexamethasone on the Metabolism of Healthy and Diseased Articular Cartilage	<b>Tej Chajed</b> Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Verifying a Concurrent File System with Sequential Reasoning
<b>Cenk Baykal</b> (September, 2021) Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Sampling-based Algorithms for Fast and Deployable AI	<b>William George Boag</b> Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Evidence-Based AI Ethics	<b>Nisha Chandramoorthy</b> (September, 2021) Thesis in the field of Mechanical Engineering and Computation submitted to the Department of Mechanical Engineering: An Efficient Algorithm for Sensitivity Analysis of Chaotic Systems
<b>Ashley Lynne Beckwith</b> (February, 2022) Thesis in the field of Mechanical Engineering: Rethinking Plant-Based Materials Production: Selective Growth of Tunable Materials Using Cell Culture Techniques	<b>Carles Boix</b> Thesis in the field of Computational and Systems Biology: Gene-Regulatory Circuitry of Disease Risk and Progression	<b>Cecile Anne-Carole Frederique Chazot</b> Thesis in the field of Materials Science and Engineering: Spatially Directed Interfacial Polymerization
<b>Marc-André Bégin</b> Thesis in the field of Aeronautics and Astronautics: Perception and Control Methods for Improving the Autonomy of Off-Road Robots	<b>Jacob de Riba Borrajo</b> (February, 2022) Thesis in the field of Biological Engineering: New Biological Pathways	<b>Yifeng Che</b> (February, 2022) Thesis in the field of Nuclear Science and Engineering: Application of Data-Driven Methods in Nuclear Fuel Performance Analysis
<b>Jonathan Kyle Behrens</b> (February, 2022) Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Performance Implications of Mitigating Transient Execution Side Channel Attacks	<b>Andrew Thomas Bouma</b> Thesis in the field of Mechanical Engineering: Thermodynamically Driven Advances in Efficient and Cost-Effective Desalination and Brine Treatment	<b>Benson S. Chen</b> (February, 2022) Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Molecular Graph Representation and Generation for Drug Discovery

**Changchen Chen**  
(September, 2021)  
Thesis in the field of Electrical Engineering and Computer Science: High-Dimensional Quantum Key Distribution with Frequency Encoding

**Sitan Chen**  
(September, 2021)  
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Provable Algorithms for Resilient Data Science

**Siyu Chen**  
(February, 2022)  
Thesis in the field of Transportation submitted to the Department of Civil and Environmental Engineering: Efficient and Equitable Travel Demand Management Using Price and Quantity Controls

**Yen-Ting Chi**  
Thesis in the field of Materials Science and Engineering: External Field Effects on Defects in Functional Oxides: Experiments and Simulations

**Rohan Sunil Chitnis**  
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Learning State and Action Abstractions for Effective and Efficient Planning

**Jaclyn Leigh Cho**  
(September, 2021)  
Thesis in the field of Materials Science and Engineering: Design of Superelastic Secondary-Phase-Toughened Alloys

**Jae Hyung Cho**  
Thesis in the field of Mechanical Engineering: Microscopic Characterization of Macroscopic Colloidal Gel Rheology

**Chanyeol Choi**  
(September, 2021)  
Thesis in the field of Electrical Engineering and Computer Science: Memristor-Based AI Hardware for Reliable and Reconfigurable Neuromorphic Computing

**Hyeongrak Choi**  
(February, 2022)  
Thesis in the field of Electrical Engineering and Computer Science: Strong Light-Matter Interaction with Cavities for Quantum Information

**Kyungyong Choi**  
(September, 2021)  
Thesis in the field of Electrical Engineering and Computer Science: Versatile Biological Sample Preparation Platform Using Microfluidic Cell Sorting Device

**Nadim Chowdhury**  
Thesis in the field of Electrical Engineering and Computer Science: GaN Complementary Metal-Oxide-Semiconductor (CMOS) Technology on GaN-on-Si

**Ty Christoff-Tempsta**  
Thesis in the field of Polymers and Soft Matter submitted to the Department of Materials Science and Engineering: Design of Ultra-Robust Supramolecular Assemblies and Their Application to Water Remediation

**Yu-An Chung**  
Thesis in the field of Electrical Engineering and Computer Science: Self-Supervised Learning for Speech Processing

**Alexandra Churikova**  
Thesis in the field of Materials Science and Engineering: Spin Hall Magnetoresistance and Current-Induced Magneto-Transport in Insulating Antiferromagnetic Oxides

**Pierre Colombe Dromel**  
(February, 2022)  
Thesis in the field of Polymers and Soft Matter submitted to the Department of Materials Science and Engineering: A Biomaterial-Based Stem Cell Therapy for Retinal Regeneration

**Rachel Clare Connick**  
Thesis in the field of Nuclear Science and Engineering: Assessing Differential Scanning Calorimetry as a Retrospective Dosimetry Method for the Verification of Uranium Enrichment Activities

**Nathan Stuart Corbin**  
Thesis in the field of Chemical Engineering: Electrocatalytic Conversion of Carbon Dioxide to Value-Added Chemicals

**Sarah Clare Cowles**  
Thesis in the field of Chemical Engineering: An Affinity Threshold for Maximum Efficacy in Anti-PD-1 Cancer Immunotherapy

**Samuel Steven Cruz**  
Thesis in the field of Mechanical Engineering: Capillary-Driven Condensation for Heat Transfer Enhancement in Steam Power Plants

**Siyu Dai**  
Thesis in the field of Mechanical Engineering: Learning to Make Decisions in Robotic Manipulation

**Mina Dalirrooyfard**  
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Finding Patterns, Short Cycles and Long Shortest Paths in Graphs

**Neil Chandra Dalvie**  
Thesis in the field of Chemical Engineering: Product and Host Engineering for Low-Cost Manufacturing of Therapeutic Proteins in the Yeast *Komagataella phaffii*

**Phillip Howard Daniel**  
(February, 2022)  
Thesis in the field of Mechanical Engineering: Analysis, Design, and Control of Supernumerary Robotic Limbs Coupled to a Human

**Paul Dannenberg**  
(September, 2021)  
Thesis in the field of Health Sciences and Technology submitted to the Harvard-MIT Program in Health Sciences and Technology: Scalable Development of Multiplexed Microparticle Technologies for Optical Single-Cell Barcoding

**Shoshana Lea Das**  
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Engineering Three Dimensional In Vitro Approaches to Study Cardiac Injury and Repair

<b>Supratim Das</b> (See also M.B.A., Course XV) Thesis in the field of Chemical Engineering: Learning the Electrochemistry of Degradation and Safety in Graphite Porous Electrodes for Lithium-ion Batteries	<b>Jianyi Du</b> (February, 2022) Thesis in the field of Mechanical Engineering: Advanced Rheological Characterization of Nanofilled Materials for Automotive Applications	<b>Cheng Fang</b> (September, 2021) Thesis in the field of Aeronautics and Astronautics: Efficient Algorithms and Representations for Chance-Constrained Mixed Constraint Programming
<b>Christopher Lee Dean</b> Thesis in the field of Electrical Engineering and Computer Science: Advances in Hierarchical Probabilistic Multimodal Data Fusion	<b>Rebecca R. Du</b> Thesis in the field of Biological Engineering: Designing 3D Wireframe DNA Nanoparticles for Programmable Innate Immune Activation	<b>Olumurejiwa A. Fatunde</b> Thesis in the field of Operations Management & Decision Sciences submitted to the Department of Civil and Environmental Engineering: The Impact of Interpersonal Relationships and Incentive Structures on the Performance of Actors in Informal Supply Chains
<b>Ismail Degani</b> (February, 2022) Thesis in the field of Electrical Engineering and Computer Science: Signal Processing Techniques Applied to Biomedical Diagnostics	<b>Tao Du</b> (September, 2021) Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Differentiable Simulation Methods for Robotic Agent Design	<b>Samuel James Faucher</b> Thesis in the field of Chemical Engineering: Dynamics and Phase Behavior of Fluids inside Isolated Carbon Nanotubes
<b>Joseph Jeff DelPreto</b> (September, 2021) Thesis in the field of Electrical Engineering and Computer Science: Robots as Minions, Sidekicks, and Apprentices: Using Wearable Muscle, Brain, and Motion Sensors for Plug-and-Play Human-Robot Interaction	<b>Surya Effendy</b> Thesis in the field of Chemical Engineering: Corrosion and Corrosion Prevention Technology: Revisiting the Fundamentals and Looking Forward	<b>Sarah C. Fay</b> (September, 2021) Thesis in the field of Mechanical Engineering: Optimizing Shoe Midsoles for Running Performance
<b>Paula do Vale Pereira</b> Thesis in the field of Space Systems submitted to the Department of Aeronautics and Astronautics: Experimental Validation of Melt Probe Models for the Exploration of Ocean Worlds	<b>Erik Roger Eisenach</b> Thesis in the field of Electrical Engineering and Computer Science: Vector Magnetometry Using Cavity-Enhanced Microwave Readout of Solid-State Spin Sensors	<b>Álvaro-Miguel Fernández Galiana</b> (February, 2022) Thesis in the field of Mechanical Engineering: Development of Precision, Field-Deployable, Opto-Mechanical Instrumentation: Accessibility as a Functional Requirement
<b>Connor Dobson</b> (February, 2022) Thesis in the field of Biological Engineering: Lentiviral Vector Engineering for High-Throughput Immune Profiling	<b>Sally Ibrahim El-Henawy</b> (February, 2022) Thesis in the field of Electrical Engineering and Computer Science: Statistical Modeling of the Effects of Process Variations on Silicon Photonics	<b>Michael Forsuelo</b> Thesis in the field of Chemical Engineering: Investigations into Message Passing Neural Networks and Polymer Fouling
<b>Zijing Dong</b> (September, 2021) Thesis in the field of Electrical Engineering and Computer Science: MRI Techniques for Quantitative and Microstructure Imaging	<b>Natalie Suzanne Eyke</b> Thesis in the field of Chemical Engineering: Automating Reaction Development: Hardware and Software for Fully-Automated High-Fidelity Navigation of High-Dimensional Chemical Reaction Space	<b>Kevin James Fox</b> (See also M.B.A., Course XV) Thesis in the field of Chemical Engineering Practice submitted to the Department of Chemical Engineering: Carbon Catabolite Repression Relaxation: Approaches for Sugar Co-Utilization in <i>Escherichia coli</i>
<b>Aidan Patrick Dowdle</b> Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Design of a High Specific Power Electric Machine for Turboelectric Propulsion	<b>Takian Fakhru</b> (February, 2022) Thesis in the field of Materials Science and Engineering: Iron Garnet Thin Films for Integrated Photonics and Spintronics	<b>Thibaud Fritz</b> (February, 2022) Thesis in the field of Aeronautics and Astronautics: Plume to Global-Scale Atmospheric Impacts of Aviation Emissions

**Luke Benjamin Funk**

Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Image-Based Pooled Genetic Screens for Complex Cellular Phenotypes

**Hayley Jayne Gadol**

(September, 2021)

Thesis in the field of Environmental Chemistry submitted to the Department of Civil and Environmental Engineering: Cycling of Iron and Manganese (Oxyhydr) oxides in the Presence of Organic Matter

**Amit A. Gandhi**

(February, 2022)

Thesis in the field of Mechanical Engineering: Sensor-Based Methods for Characterizing Technology Impact in Low-Resource Settings

**Haining Gao**

Thesis in the field of Materials Science and Engineering: Tailoring Fluoride/Fluorine Bond Activity for High-Energy Li and Li-ion Batteries

**Wei Gao**

(September, 2021)

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Representing Unstructured Environments for Robotic Manipulation: Toward Generalization, Dexterity and Robustness

**Caelan R. Garrett**

(September, 2021)

Thesis in the field of Electrical Engineering and Computer Science: Sampling-Based Robot Task and Motion Planning in the Real World

**Clement Gehring**

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Efficient Reinforcement Learning via Singular Value Decomposition, End-to-End Model-Based Methods and Reward Shaping

**Jacqueline Sophie Gerritsen**

Thesis in the field of Biological Engineering: Mechanistic Characterization of RTK Signaling Networks Using Phosphoproteomic Approaches

**Albert Reuben Gnadt**

Thesis in the field of Aeronautics and Astronautics: Advanced Aeromagnetic Compensation Models for Airborne Magnetic Anomaly Navigation

**Peter T. Godart**

(September, 2021)

Thesis in the field of Mechanical Engineering: Mechanisms of Liquid-Metal-Activated Aluminum-Water Reactions and Their Application

**Jordan A. Goldstein**

(September, 2021)

Thesis in the field of Electrical Engineering and Computer Science: Technologies for Room-Temperature Mid-Infrared Photodetection Using Graphene

**Gustavo Nunes Goretkin**

(February, 2022)

Thesis in the field of Computer Science and Engineering submitted to the Department of Electrical Engineering and Computer Science: Visibility-Aware Motion Planning

**Prateesh Goyal**

(February, 2022)

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Congestion Control in Highly Variable Networks

**Elizabeth Erin Grace**

(September, 2021)

Thesis in the field of Biological Engineering: Characterization of Anti-Tumor T Cell Specificities to Inform Engineering of Antigen-Targeted Immunotherapies

**Katharine Virginia Greco**

(September, 2021)

Thesis in the field of Chemical Engineering: On the Impact of Electrode Properties and Their Design for Redox Flow Battery Performance

**Daisy Hikari Green**

Thesis in the field of Electrical Engineering and Computer Science: Electrical Monitoring of Electromechanical Systems

**Chongjie Gu**

(September, 2021)

Thesis in the field of Mechanical Engineering: A Deterministic Model for Wear of Piston Ring and Liner and a Machine Learning-Based Model for Engine Oil Emissions

**Fengdi Guo**

(September, 2021)

Thesis in the field of Civil and Environmental Engineering: Improving Pavement Networks through Performance-Based Planning with Optimal Treatment Strategies and Management Policies

**Manuel Gutierrez**

(September, 2021)

Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Stability Methods for Regulated Loads

**Seung Kyun Ha**

(September, 2021)

Thesis in the field of Chemical Engineering: Engineering the Synthesis and Properties of Two-Dimensional Colloidal Perovskite Nanoplatelets

**Cameron George Halliday**

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

Thesis in the field of Chemical Engineering Practice submitted to the Department of Chemical Engineering: Molten Alkali Metal Borates for High Temperature Carbon Capture

**Jennifer Lynn Hammelman**

(September, 2021)

Thesis in the field of Computational and Systems Biology: Chromatin Accessibility Informs Cell Identity: Studies in Silico, In Vitro and In Vivo

**Jiahao Han**

(February, 2022)

Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Harnessing Magnetic Switching and Dynamics Using Electron and Magnon Spin Currents

**Yining Hao**

Thesis in the field of Chemical Engineering: Applications of Engineered Proteins in Redox Biology and Biomarker Detection Assay Development

**Songtao He**

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Enriching Digital Maps with Aerial Imagery and GPS Data

**Tianxing He**

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Towards a Deeper Understanding of Neural Language Generation

**Shayna Lynne Hilburg**

Thesis in the field of Polymers and Soft Matter submitted to the Department of Materials Science and Engineering: Computational Studies of Bio-Inspired Synthetic Random Heteropolymers

**Eric Daniel Hinterman**

Thesis in the field of Aeronautics and Astronautics: Multi-Objective System Optimization of a Mars Atmospheric ISRU Plant

**Charles Arthur Hirst**

Thesis in the field of Nuclear Science and Engineering: Quantifying Radiation Damage through Stored Energy Released during Defect Annealing in Metals

**Dhiraj Holden**

(February, 2022)  
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Modern Interactive Proofs

**Dylan Alexander Holmes**

(September, 2021)  
Thesis in the field of Electrical Engineering and Computer Science: Computing Moral Hypotheticals

**Celestine Jia Huey Hong**

Thesis in the field of Chemical Engineering: Engineering Materials for Non-Compressible Torso Hemorrhage and Internal Bleeding

**Markus Attila Horvath**

Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: A Multimodal Approach to Investigate the Effects of Respiration on Fontan Flow to Inform Strategies for Circulatory Support

**MayLin Tian Howard**

(September, 2021)  
Thesis in the field of Chemical Engineering: Layer-by-Layer Systems for Craniomaxillofacial Bone Repair

**Jonathan Yee-Ting Hsu**

(February, 2022)  
Thesis in the field of Biological Engineering: Computational and Experimental Methods for CRISPR-based Saturation Mutagenesis Screens

**Lucy Hu**

(February, 2022)  
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Soft Robotics Applied to the Development of a Diaphragm Assist System

**Hejin Huang**

(September, 2021)  
Thesis in the field of Computational Materials Science and Engineering submitted to the Department of Materials Science and Engineering: Designing and Fabricating 3D Nanostructures through Directed Self-Assembly of Block Copolymers

**Brooke Donna Huisman**

Thesis in the field of Biological Engineering: Tool Development for Studying and Manipulating Peptide-MHC Interactions in a Globally-Representative Manner

**In Young Hur**

(February, 2022)  
Thesis in the field of Air-Breathing Propulsion submitted to the Department of Aeronautics and Astronautics: Forced Response System Identification of Full Aero-Engine Rotordynamic Systems

**Mohamed Ibrahim Mohamed Ibrahim**

(September, 2021)  
Thesis in the field of Electrical Engineering and Computer Science: Miniaturized Chip-Scale Quantum and Terahertz Systems Through Tight Integration of Electronics, Electromagnetics, and Qubits

**Mirai Ikebuchi**

(February, 2022)  
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Applications of Homological Algebra to Equational Theories

**Syed Muhammad Imaduddin**

(February, 2022)  
Thesis in the field of Electrical Engineering and Computer Science: Ultrasound-Based Noninvasive Monitoring Methods for Neurocritical Care

**Jeevana Priya Inala**

(February, 2022)  
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Neurosymbolic Learning for Robust and Reliable Intelligent Systems

**Gregory R. Izatt**

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Capturing Distributions over Worlds for Robotics with Spatial Scene Grammars

**Vishnu Jayaprakash**

(February, 2022)  
Thesis in the field of Mechanical Engineering: Engineering Physico-Chemical Interactions Across Drug Delivery, Agriculture and Carbon Capture

**Zachary David Jensen**

(February, 2022)  
Thesis in the field of Materials Science and Engineering: Data Driven Synthesis Planning Applied to Zeolite Materials

**Steven Joseph Jepeal**

(September, 2021)  
Thesis in the field of Nuclear Science and Engineering: Intermediate Energy Proton Irradiation: An Experimental and Analytical Foundation for Bulk Radiation Damage Testing

**Bo Jiang**

(February, 2022)

Thesis in the field of Mechanical Engineering: System Design, Noise Reduction, and Improved Dimension Reconstruction for High Performance Ellipsometry

**Menglei Jiang**

(February, 2022)

Thesis in the field of Mechanical Engineering: High-Strength Transformation-Induced Plasticity Steels with Reverted Interlath Austenite

**Wengong Jin**

(September, 2021)

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Graph Representation Learning for Drug Discovery

**Peiyu Jing**

(February, 2022)

Thesis in the field of Transportation submitted to the Department of Civil and Environmental Engineering: Design and Evaluation of Urban Congestion Pricing Policies with Microsimulation of Passenger and Freight

**Seong Soon Jo**

Thesis in the field of Materials Science and Engineering: Processing and Optical Uses of Van der Waals Layered Materials

**Hilary Anna Johnson**

Thesis in the field of Mechanical Engineering: Adaptive Hydraulics for Improved Centrifugal Pump Efficiency

**Matthew Sean Johnson**

Thesis in the field of Chemical Engineering: Automatic Generation and Analysis of Chemical Kinetic Mechanisms

**Byong Ha Kang**

(September, 2021)

Thesis in the field of Biological Engineering: Identification and Knockout of Immunodominant Endogenous Retroviral Antigen in Murine Tumor Models

**Iksung Kang**

Thesis in the field of Electrical Engineering and Computer Science: Multi-Dimensional Computational Imaging from Diffraction Intensity Using Deep Neural Networks

**Pritpal Singh Kanhaiya**

Thesis in the field of Electrical Engineering and Computer Science: Carbon Nanotubes for Space Electronics: Enabling New Applications with Emerging Technologies

**Bharath Kannan**

Thesis in the field of Electrical Engineering and Computer Science: Waveguide Quantum Electrodynamics with Superconducting Qubits

**Alexandre Kaspar**

(February, 2022)

Thesis in the field of Electrical Engineering and Computer Science: Garment Design Workflows for On-Demand Machine Knitting

**Karthik Kavassery Gopalakrishnan**

(September, 2021)

Thesis in the field of Aeronautics and Astronautics: Modeling and Control of Networked Systems: Applications to Air Transportation

**Muhammad Ibrahim Wasiq Khan**

Thesis in the field of Electrical Engineering and Computer Science: New Frontiers in Silicon Terahertz Electronics: Wirelessly Powered THz-ID and Secure THz Links

**Dongha Kim**

Thesis in the field of Materials Science and Engineering: Understanding and Controlling the Surface Chemistry of Oxides to Enhance Catalytic Activity at Elevated Temperatures

**Seunghyeon Kim**

(September, 2021)

Thesis in the field of Chemical Engineering: Boosting Biodetection Signals via Photopolymerization: Strategies for Photocatalyst Amplification

**Yoonho Kim**

Thesis in the field of Mechanical Engineering: Magnetic Soft Continuum Robots for Telerobotic Stroke Intervention

**Younggyu Kim**

Thesis in the field of Materials Science and Engineering: Understanding and Controlling the Degradation Mechanisms at Cathode-Electrolyte Interfaces in All-Solid-State Lithium-Ion Batteries

**Eren Can Kızıldağ**

Thesis in the field of Electrical Engineering and Computer Science: Algorithms and Algorithmic Barriers in High-Dimensional Statistics and Random Combinatorial Structures

**Ishwar N. Kohale**

(September, 2021)

Thesis in the field of Biological Engineering: Translational Phosphoproteomics Methods to Identify Biomarkers and Novel Therapeutic Targets

**Stephanie Mabel Kong**

(September, 2021)

Thesis in the field of Chemical Engineering: Layer-by-Layer Nanoparticles for Targeted Delivery and Treatment of Ovarian Cancer

**James Brandon Koppel**

(September, 2021)

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Meta-Metaprogramming

**Yosef S. Kornbluth**

(September, 2021)

Thesis in the field of Mechanical Engineering: Microplasma-Enabled Sputtering of Nanostructured Materials for the Agile Manufacture of Electronic Components

**Artyom Kossolapov**

(September, 2021)

Thesis in the field of Nuclear Science and Engineering: Experimental Investigation of Subcooled Flow Boiling and CHF at Prototypical Pressures of Light Water Reactors

**Konstantin Krismer**

(September, 2021)

Thesis in the field of Biological Engineering: Principled Methods and Models for Deep Learning Based Functional Genomics

**Joshua Moses Kubiak**

(September, 2021)

Thesis in the field of Polymers and Soft Matter submitted to the Department of Materials Science and Engineering: Polymer Grafted Nanoparticles as Functional and Mechanically Robust Single-Component Composites

**Yen-Ling Kuo**

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Compositional Robot Learning for Generalizable Interactions

**Alim Ladha**

(February, 2022)

Thesis in the field of Biological Engineering: Characterization and Engineering of Transposons for Genome Editing

**Hsin-Yu Lai**

(September, 2021)

Thesis in the field of Electrical Engineering and Computer Science: Tracking of Eye Movement Features for Individualized Assessment of Neurocognitive State Using Mobile Devices

**Madeleine Reynolds Laitz**

Thesis in the field of Electrical Engineering and Computer Science: Light-Matter Interactions in High-Efficiency Photovoltaics, LEDs, and Strongly-Coupled Microcavities

**Christopher I. Lang**

(February, 2022)

Thesis in the field of Electrical Engineering and Computer Science: Applications of Probabilistic Machine Learning Models to Semiconductor Fabrication

**Christian Lee Lau**

(February, 2022)

Thesis in the field of Electrical Engineering and Computer Science: A Manufacturing Methodology for Carbon Nanotube-based Digital Systems: from Devices, to Doping, to System Demonstrations

**Dongchan Lee**

Thesis in the field of Mechanical Engineering: Robustness Verification and Optimization of Nonlinear Systems

**Ethan Sukrae Lee**

Thesis in the field of Electrical Engineering and Computer Science: Gate-Geometry Dependence of Enhancement-Mode p-GaN Gate High Electron Mobility Transistors

**Jongwoo Lee**

(September, 2021)

Thesis in the field of Mechanical Engineering: Effects of Mechanical Interventions on Human Locomotion

**Margaret Sandra Lee**

Thesis in the field of Polymers and Soft Matter submitted to the Department of Materials Science and Engineering: Nanoparticle Self-Assembly for the Synthesis and Processing of Ordered Nanocomposite Solids

**Meelim Jasmine Lee**

Thesis in the field of Biological Engineering: Integrated Computational and Experimental Analysis of Non-Neuronal Cell Molecular Mechanisms Contributing to Alzheimer's Disease Progression

**Sangho Lee**

(February, 2022)

Thesis in the field of Mechanical Engineering: Nanoscale Engineering for Mixed-Dimensional Heterostructure Growth and Integration

**Szu-Yu Lee**

Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Imaging through Optical Multimode Fiber: Towards Ultra-Thin Endoscopy

**Youngbin Lee**

Thesis in the field of Materials Science and Engineering: Engineering Biomedical and Bioinspired Fiber Devices via Thermal Drawing

**Eric Christian Lehnhardt**

(September, 2021)

Thesis in the field of Biological Engineering: Engineering Biological Materials for Carbon Capture and the Electrochemical Reduction of Carbon Dioxide to Light Hydrocarbons

**Arny Leroy**

(September, 2021)

Thesis in the field of Mechanical Engineering: Subambient Passive Cooling Enabled by Polyethylene Aerogels

**Maxwell A. L'Etoile**

Thesis in the field of Materials Science and Engineering: Effects of Crystalline Anisotropy on Solid-state Dewetting

**Graham Leverick**

(February, 2022)

Thesis in the field of Mechanical Engineering: Towards Comprehensive Design of Electrolytes for Electrochemical Energy Storage

**Jonathan Li**

(February, 2022)

Thesis in the field of Computational and Systems Biology: Systems Biology Approaches for Elucidating Early ALS Disease Processes

**Matthew Tin Chun Li**

(September, 2021)

Thesis in the field of Mechanical Engineering and Computation submitted to the Department of Mechanical Engineering: Applications of Deep Learning to Scientific Inverse Problems

**Max Zhaoyu Li**

(September, 2021)

Thesis in the field of Aeronautics and Astronautics: Spectral Models for Air Transportation Networks

**Xinhao Li**

(September, 2021)

Thesis in the field of Mechanical Engineering: Disordered Optics for Multidimensional Information Processing

**Yiliang Li**

Thesis in the field of Materials Science and Engineering: Ionic Conductivity Transitions in Antiperovskite Ionic Conductors

**Ruizheng Liao**

(September, 2021)

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Multimodal Representation Learning for Medical Image Analysis

**Lucas Matthias Karl Liebenwein**  
(September, 2021)  
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science:  
Efficient Deep Learning: From Theory to Practice

**Jasper Z. Lienhard**  
Thesis in the field of Materials Science and Engineering: High-Velocity Impact of Metal Microparticles

**Aditya Madan Limaye**  
Thesis in the field of Chemical Engineering: Physical Models and Statistical Methods for Understanding Electrochemical Kinetics

**Sharon Lin**  
(September, 2021)  
Thesis in the field of Chemical Engineering: Free Volume Manipulation Techniques of Polymer Membranes for Gas Separations

**Ting-An Lin**  
Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Strategies for High-Performance Solid-State Photon Upconversion

**Katherine Y. Liu**  
(February, 2022)  
Thesis in the field of Aeronautics and Astronautics: Improving Autonomous Navigation and Estimation in Novel Environments

**Quanquan C. Liu**  
(September, 2021)  
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Scalable and Efficient Graph Algorithms and Analysis Techniques for Modern Machines

**Xinyue Liu**  
(February, 2022)  
Thesis in the field of Mechanical Engineering: Hydrogel Machines - Design, Manufacturing, and Applications

**Zhenyu Liu**  
(See also S.M., Course XVI)  
Thesis in the field of Networks and Statistics submitted to the Department of Aeronautics and Astronautics:  
Decentralized Inference and its Application to Network Localization and Navigation

**Julie Victoria Logan**  
(September, 2021)  
Thesis in the field of Nuclear Science and Engineering: Uncovering the Fundamental Driver of Semiconductor Radiation Tolerance

**Hyun-Chae Loh**  
(September, 2021)  
Thesis in the field of Civil and Environmental Engineering: Time-Space-Resolved Raman Analysis of Structure-Property Relationships in Heterogeneous Structural Materials

**Josué Jacob López**  
Thesis in the field of Electrical Engineering and Computer Science:  
On-Chip Planar Lens Architectures for Optical Beam Steering

**Charlotte Emily Lowey**  
Thesis in the field of Space Systems submitted to the Department of Aeronautics and Astronautics:  
Uncertainty-Based Design Optimization and Decision Options for Responsive Maneuvering of Reconfigurable Satellite Constellations

**Hongyin Luo**  
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science:  
Self-Training for Natural Language Processing

**Jiaming Luo**  
(September, 2021)  
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science:  
Automatic Methods for Sound Change Discovery

**Vamsi Viswanath Mangena**  
(February, 2022)  
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Human Brain Organoids for Studying Malignant Cell States and Intercellular Communications in Human Glioma

**Lorenzo Masoero**  
(September, 2021)  
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science:  
Prediction and Design in Experiments: a Bayesian Nonparametric Approach

**Abhilash Mathews**  
Thesis in the field of Applied Plasma Physics submitted to the Department of Nuclear Science and Engineering:  
Physics-Informed Machine Learning Techniques for Edge Plasma Turbulence Modelling in Computational Theory and Experiment

**Samuel Westcott McAlpine**  
(February, 2022)  
Thesis in the field of Nuclear Science and Engineering: Materials Design for Nuclear Energy Systems: High Entropy Alloys and Metallic Multi-Layer Composites

**William Connor McCarthy**  
Thesis in the field of Nuclear Science and Engineering: The Low Frequency Edge Oscillation in Alcator C-Mod and ASDEX Upgrade I-Mode

**Matthew Brian Andrew McDermott**  
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science:  
Leveraging Structure and Knowledge in Clinical and Biomedical Representation Learning

**Anthony Drew McDougal**  
Thesis in the field of Mechanical Engineering: In Vivo Imaging and Morphogenesis of Butterfly Scale Development

**Jie Mei**  
(September, 2021)  
Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: An Optimal Scheduling Method for Multi-Energy System

**Nicolas Meirhaeghe**  
(September, 2021)  
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Neural Encoding of Prior Experience in Sensorimotor Behavior

**Rahul Prasanna Misra**  
(September, 2021)  
Thesis in the field of Chemical Engineering: Multiscale Modeling of Electronic Polarization Effects in Interfacial Thermodynamics and Nanoscale Transport Phenomena

**Katherine Mizrahi Rodriguez**  
Thesis in the field of Polymers and Soft Matter submitted to the Department of Materials Science and Engineering: Mixed-gas Transport in Microporous Polymer Derivatives for Energy-Efficient Gas Separations

**Sajjad Mohammadi Yangijeh**  
(February, 2022)  
Thesis in the field of Electrical Engineering and Computer Science: Modeling, Design, Identification, Drive, and Control of a Rotary Actuator with Magnetic Restoration

**Somesh Mohapatra**  
Thesis in the field of Polymers and Soft Matter submitted to the Department of Materials Science and Engineering: Designing Macromolecules using Machine Learning and Simulations

**Noor Momin**  
(September, 2021)  
Thesis in the field of Biological Engineering: Engineering, Modeling, and Trializing Intratumoral Immunotherapies for the Treatment of Cancer

**Nathan McKay Monroe**  
(February, 2022)  
Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: High Angular Resolution Beam Steering Terahertz Antenna Arrays for Imaging Applications

**Sun Jin Moon**  
Thesis in the field of Chemical Engineering: Toward Quantitative Understanding of Compartmentalized NADPH Metabolism in Cancer Cells

**Matthew Tyler Moraguez**  
(September, 2021)  
Thesis in the field of Space Systems submitted to the Department of Aeronautics and Astronautics: Modeling and Optimization of In-Space Manufacturing to Inform Technology Development

**Caris Mariah Moses**  
Thesis in the field of Electrical Engineering and Computer Science: Optimistic Active Learning of Task and Action Models for Robotic Manipulation

**Joshua Alexandre Moss**  
(February, 2022)  
Thesis in the field of Environmental Chemistry submitted to the Department of Civil and Environmental Engineering: Laboratory and Mechanistic Studies of Volatile Organic Carbon Oxidation Systems in the Atmosphere

**Eric Michael Hanson Moult**  
(September, 2021)  
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Optical Coherence Tomography Angiography for Imaging and Analysis of the Choriocapillaris in Late Age-Related Macular Degeneration

**Vaikkunth Mugunthan**  
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: A Practical Approach to Federated Learning

**Carlos Muñoz Royo**  
(September, 2021)  
Thesis in the field of Mechanical and Oceanographic Engineering submitted to the Department of Mechanical Engineering: Sediment Plumes and Financial Modeling in the Context of Deep-Sea Polymetallic Nodule Mining

**Richard Joshua Murdock**  
(September, 2021)  
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Modular Magnetic Relaxation Nanomaterial Biosensor Platform for Local, Integrative Chemical Monitoring

**Dheeraj Mysore Nagaraj**  
(February, 2022)  
Thesis in the field of Electrical Engineering and Computer Science: Expressivity and Structure in Networks: Ising Models, Random Graphs, and Neural Networks

**Anirudh Manoj Kumar Nambiar**  
Thesis in the field of Chemical Engineering: Automated Execution and Optimization of Flow Chemistry on a Robotic Platform with Integrated Analytics

**Jaya Narain**  
(September, 2021)  
Thesis in the field of Mechanical Engineering: Interfaces and Models for Improved Understanding of Real-World Communicative and Affective Nonverbal Vocalizations by Minimally Speaking Individuals

**Akshay Krishna Narayan**  
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Enabling Configurable, Extensible, and Modular Network Stacks

**Thaneer Malai Narayanan**  
(September, 2021)  
Thesis in the field of Mechanical Engineering: Prototype Development and Techno-Economic Analysis of Electrochemical Energy Storage Systems

**Vikram Nathan**  
(February, 2022)  
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science:  
Instance Optimized Database Indexing

**Quan Minh Nguyen**  
Thesis in the field of Electrical Engineering and Computer Science:  
Accelerating Irregular Applications with Pipeline Parallelism

**Cynthia Ni**  
Thesis in the field of Chemical Engineering: Multiplexed Transcriptional Control Strategies for Biosynthesis Using Mixed Substrates in *Escherichia coli*

**Caroline Jo Nielsen**  
Thesis in the field of Chemical Engineering: Nonsmooth Methods for Process Integration

**Catherine Anna Nikiel**  
(February, 2022)  
Thesis in the field of Hydrology and Climate submitted to the Department of Civil and Environmental Engineering: On the Climate-Agriculture-Water Nexus at the Regional Scale

**Anastasia Nikolakopoulou**  
(February, 2022)  
Thesis in the field of Chemical Engineering: Automated Optimization and Control of Modular Chemical Systems

**Sarah Kate Nyquist**  
Thesis in the field of Computational and Systems Biology: Differential Analysis of scRNA-Seq Data to Characterize Epithelial Cells in Health and Disease

**Christian Edward Oliver**  
Thesis in the field of Materials Science and Engineering: Understanding and Optimizing Nanophase Separation Sintering

**Oguzhan Murat Onen**  
Thesis in the field of Electrical Engineering and Computer Science:  
Devices and Algorithms for Analog Deep Learning

**Daniel Oropeza Gomez**  
(September, 2021)  
Thesis in the field of Mechanical Engineering: Testbeds for Advancement of Powder Bed Additive Manufacturing with Application to Reactive Binder Jetting of Ceramics

**Matthew Ryan Overlin**  
(September, 2021)  
Thesis in the field of Electrical Engineering and Computer Science:  
Methods for Parameter Estimation with Devices in Microgrids

**Berk Öztürk**  
(February, 2022)  
Thesis in the field of Aeronautics and Astronautics: Global and Robust Optimization for Engineering Design

**Jonathan Edward Page**  
Thesis in the field of Design Engineering submitted to the Department of Mechanical Engineering: A Model for Set-Based Design at the System-of-Systems Scale with Approaches for Emergent Properties

**Menghsuan Sam Pan**  
(February, 2022)  
Thesis in the field of Materials Science and Engineering: Aqueous Polysulfide Electrodes for Low-Cost Grid-Scale Energy Storage

**Shalmalee Dhananjay Pandit**  
(February, 2022)  
Thesis in the field of Biological Engineering: Towards Artificial Photosynthesis: Yeast-Inorganic Hybrid System

**Christopher Louis Panuski**  
Thesis in the field of Electrical Engineering and Computer Science:  
Resonant Spatial Light Modulation: Optical Programming and Sensing at the Fundamental Limit

**Clara Park**  
Thesis in the field of Mechanical Engineering: Development of a High-Fidelity Biorobotic Cardiovascular in vitro Simulator

**Jimin Park**  
(February, 2022)  
Thesis in the field of Materials Science and Engineering: Electrochemical and Magnetochemical Approaches for Neuronal Modulation

**Minkyung Park**  
(February, 2022)  
Thesis in the field of Chemical Engineering: Property-Structure Relationships and Design Rules for Carbon Nanotube Based Corona Phase Molecular Recognition for Biomolecules

**Molly Frances Parsons**  
Thesis in the field of Biological Engineering: Methods to Program and to Probe RNA Tertiary Structure with Nucleic Acid Origami

**Jiayu Peng**  
Thesis in the field of Materials Science and Engineering: Activity and Stability Design Principles of Transition Metal Compounds for Decarbonization

**Pai Peng**  
Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: NMR Studies of Quantum Thermalization

**Clément Pit-Claudel**  
(February, 2022)  
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science:  
Relational Compilation: Functional-to-Imperative Code Generation for Performance-Critical Applications

**Bauyrzhan K. Primkulov**  
Thesis in the field of Civil and Environmental Engineering: Interfacial Fluid Dynamics in Porous Media

**Victor Prost**  
(September, 2021)  
Thesis in the field of Mechanical Engineering: Development and Validation of a Prosthetic Foot Design Framework Based on Lower Leg Dynamics

**Kuan Qiao**  
Thesis in the field of Mechanical Engineering: Gallium Nitride Remote Epitaxy

<b>Hanzhang Qin</b> Thesis in the field of Civil Engineering and Computation submitted to the Department of Civil and Environmental Engineering: Stochastic Control through a Modern Lens: Applications in Supply Chain Analytics and Logistical Systems	<b>Jonathan Shmuel Rosenfeld</b> (September, 2021) Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Scaling Laws for Deep Learning	<b>Inés Sanz Morère</b> (February, 2022) Thesis in the field of Aerospace, Energy, and the Environment submitted to the Department of Aeronautics and Astronautics: Constraining Climate Impact Uncertainties from Future Aviation
<b>Divya Ramamoorthy</b> Thesis in the field of Biological Engineering: Developing Machine Learning Algorithms for Characterizing Disease Progression in Amyotrophic Lateral Sclerosis	<b>Candace Cheronda Ross</b> Thesis in the field of Electrical Engineering and Computer Science: Learning Language with Multimodal Models	<b>Morteza Sarmadi</b> (February, 2022) Thesis in the field of Mechanical Engineering: Microscale Polymeric-Based Technologies for Controlled Vaccine Delivery
<b>Paul Louis Reginato</b> (February, 2022) Thesis in the field of Biological Engineering: <i>In situ</i> Genome Sequencing	<b>Erin Byrne Rousseau</b> (February, 2022) Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Tools for Monitoring and Modulating Cellular Communication	<b>Andrea Scarinci</b> (February, 2022) Thesis in the field of Aerospace Computational Engineering submitted to the Department of Aeronautics and Astronautics: Robust Bayesian Inference via Optimal Transport Misfit Measures: Applications and Algorithms
<b>Miguel Arnold Silverio Reyes</b> (September, 2021) Thesis in the field of Biological Engineering: Profiling, Prototyping, and Perturbing Human Immune Responses	<b>Lucas Thorley Rush</b> (September, 2021) Thesis in the field of Nuclear Science and Engineering: Integrative Approach to Metal Extraction and Electrification	<b>Daniel Ervin Schemmel</b> Thesis in the field of Electrical Engineering and Computer Science: Design of High-Power High-Frequency Coreless Transformer Systems
<b>Luke Hyunsik Rhym</b> (February, 2022) (See also S.M., Course X-A) Thesis in the field of Chemical Engineering: Development and Applications of Peptide Barcoded Nanoparticles for High-throughput Screening of mRNA Delivery Materials <i>in vivo</i>	<b>Kevin M. Sabo</b> Thesis in the field of Aeronautics and Astronautics: Application of Ab-Initio Quantum Chemistry Techniques to Hypersonic Flows for Plasma Blackout Alleviation	<b>Kaylee Christine Schickel</b> Thesis in the field of Chemical Engineering: Design and Analysis of Methods to Eliminate Oscillatory Behavior in Bioreactors for Continuous Viral Vaccine Manufacturing
<b>Sean Gunn Robertson</b> Thesis in the field of Nuclear Science and Engineering: Evaluating Fluoride Molten Salt Thermophysical Properties with Transient Grating Spectroscopy	<b>Reyu Sakakibara</b> (September, 2021) Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: A Practical, High Performance Metallodielectric 2D Photonic Crystal Emitter for Thermophotovoltaics	<b>Zachary J. Schiffer</b> (September, 2021) Thesis in the field of Chemical Engineering: Kinetic and Thermodynamic Aspects of Voltage as a Driving Force for Ammonia Activation
<b>Kara Rodby</b> Thesis in the field of Chemical Engineering: Bringing Redox Flow Batteries to the Grid: Techno-economic Modeling for Chemistry-Informed Design of Redox Flow Batteries	<b>Erica Elizabeth Salazar</b> (September, 2021) Thesis in the field of Nuclear Science and Engineering: Quench Dynamics and Fiber Optic Quench Detection of VIPER High Temperature Superconductor Cable	<b>Tal Schuster</b> (September, 2021) Thesis in the field of Computer Science and Engineering submitted to the Department of Electrical Engineering and Computer Science: Robust and Efficient Deep Learning for Misinformation Prevention
<b>Andrew Rohskopf</b> Thesis in the field of Mechanical Engineering: Computational Methods for Studying Phonon Dynamics	<b>Shibani Vinay Santurkar</b> (September, 2021) Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Machine Learning Beyond Accuracy: A Features Perspective on Model Generalization	<b>Daniel Schwalbe Koda</b> Thesis in the field of Materials Science and Engineering: First-Principles Control of Zeolite Synthesis, Transformations, and Intergrowth
<b>Charles Roques-Carmes</b> Thesis in the field of Electrical Engineering and Computer Science: Shaping Light-Matter Interactions for Free-Electron Radiation and Photonic Computing		

**Nicholas Stearns Selby**

(September, 2021)

Thesis in the field of Electrical Engineering and Computer Science:  
Learned Lifting Linearizations**Jee Hyun Seong**

(September, 2021)

Thesis in the field of Nuclear Science and Engineering: Investigation of Separate Effects of Surface Condition on Subcooled Flow Boiling Heat Transfer

**Arunkumar Seshadri**

(February, 2022)

Thesis in the field of Nuclear Science and Engineering: Understanding the Impact of Nuclear Environment on the Hydrothermal Corrosion in SiC

**Ankit Jayesh Shah**

(September, 2021)

Thesis in the field of Autonomous Systems submitted to the Department of Aeronautics and Astronautics: Interactive Robot Training for Complex Tasks

**Darsh Jaidip Shah**

(September, 2021)

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science:  
Contrastive Text Generation**Sahil Rajesh Shah**

(September, 2021)

Thesis in the field of Mechanical Engineering: Making Decentralized Desalination More Affordable Using Improved Process Design, Control, and Energy Recovery

**Ariya Reza Shajii**

(September, 2021)

Thesis in the field of Computer Science and Engineering submitted to the Department of Electrical Engineering and Computer Science: High-Performance Computational Genomics

**Macheng Shen**

Thesis in the field of Mechanical Engineering: Robust and Scalable Multiagent Reinforcement Learning in Adversarial Scenarios

**Tianxiao Shen**Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science:  
Controlling Neural Language Generation**Alvin Shi**

(September, 2021)

Thesis in the field of Computational and Systems Biology: Computational Dissection and Prediction of Cancer Immunotherapy Response

**Yoon Ah Shin**

Thesis in the field of Materials Science and Engineering: Templated Solid-State Dewetting of Single Crystal Ni Thin Films

**Kevin Stanton Silmore**

(September, 2021)

Thesis in the field of Chemical Engineering and Computation:  
From Spheres to Sheets: Colloidal Hydrodynamics, Thermodynamics, and Statistical Inference**Diviya Sinha**

(September, 2021)

Thesis in the field of Chemical Engineering: Low Frequency Sonophoresis Assisted Cancer Immunotherapy

**Dmitriy Smirnov**

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Deep Learning on Geometry Representations

**Micah Jacob Smith**

(September, 2021)

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science:  
Collaborative, Open-Source, and Automated Data Science**Amit Solomon**

(September, 2021)

Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science:  
Noise-Centric Decoding**Vrinda Somjit**

Thesis in the field of Materials Science and Engineering: Hydrogen in Aluminum Oxide and at the Aluminum Oxide / Aluminum Interface: an ab initio Thermodynamics and Monte Carlo Investigation

**Andrew Hyungsuk Song**

(February, 2022)

Thesis in the field of Electrical Engineering and Computer Science:  
Generative Models for Structured Neural Time Series**Qichen Song**

(February, 2022)

Thesis in the field of Mechanical Engineering: Phonon and Electron Transport through Interfaces and Disordered Structures

**Youngsup Song**

(September, 2021)

Thesis in the field of Mechanical Engineering: Mechanistic Understanding and Enhancing Pool Boiling Heat Transfer via Surface Property and Structure Design

**Igor Spasojevic**Thesis in the field of Autonomous Systems submitted to the Department of Aeronautics and Astronautics:  
Algorithmic Aspects of Perception-Aware Motion Planning on Resource-Constrained Platforms**Michael Alan Specter**

(September, 2021)

Thesis in the field of Electrical Engineering and Computer Science:  
Security Research for the Public Good: A Principled Approach**Andrew Everett Spielberg**

(September, 2021)

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Co-Optimization and Co-Learning Methods for Automated Design of Rigid and Soft Robots

**Melany Christine Sponseller**

Thesis in the field of Electrical Engineering and Computer Science: The Stability of PbS Quantum Dot Solar Cells

<b>Tathagata Srimani</b> (February, 2022) Thesis in the field of Electrical Engineering and Computer Science: Nanosystems: From the Lab to the Fab	<b>Kriti Sarasa Subramanyam</b> (September, 2021) Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Chemotherapy-Eluting Intraperitoneal Implants for Advanced Stage Ovarian Cancer Treatment	<b>Timothy Yi Sheng Tay</b> (September, 2021) Thesis in the field of Civil and Environmental Engineering: Exploration and Exploitation Techniques for High-Dimensional Simulation-Based Optimization Problems in Urban Transportation
<b>Sydney Glass Sroka</b> (September, 2021) Thesis in the field of Mechanical Engineering and Computation submitted to the Department of Mechanical Engineering: Sea Spray-Mediated Fluxes at Extreme Wind Speeds	<b>Won Kyu Calvin Sun</b> (September, 2021) Thesis in the field of Quantum Science and Engineering submitted to the Department of Nuclear Science and Engineering: Developing Small-Scale Quantum Information Processors Based on Electronic Spins in Diamond	<b>Cecilia Andrea Testart Pacheco</b> (September, 2021) Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Towards Data-Driven Internet Routing Security
<b>William Thomas Stephenson</b> (February, 2022) Thesis in the field of Electrical Engineering and Computer Science: Faster and Easier: Cross-Validation and Model Robustness Checks	<b>Youngkyu Sung</b> Thesis in the field of Electrical Engineering and Computer Science: High-Fidelity Two-Qubit Gates and Noise Spectroscopy with Superconducting Qubits	<b>Cristina Coralys Torres Cabán</b> Thesis in the field of Biological Engineering: Technology Development for the Functional and Structural Analysis of the Brain
<b>Adam Gregory Stevens</b> (September, 2021) Thesis in the field of Mechanical Engineering: High Throughput Extrusion Additive Manufacturing - Rate Limits and System Design	<b>Rohit B. Supekar</b> (September, 2021) Thesis in the field of Mechanical Engineering: Learning and Investigating Phenomenological Models for Active Matter	<b>Brian Traynor</b> (September, 2021) Thesis in the field of Materials Science and Engineering: Reactivity of Crystalline Slag Phases in Cementitious Systems
<b>William Robb Stewart</b> Thesis in the field of Nuclear Science and Engineering: Capital Cost Evaluation of Advanced Reactor Designs under Uncertainty	<b>Richard Michael Swartwout</b> (September, 2021) Thesis in the field of Electrical Engineering and Computer Science: Scalable Perovskite Thin-Film Photovoltaics	<b>Brian Trippe</b> Thesis in the field of Computational and Systems Biology: Bayesian Linear Modeling in High Dimensions: Advances in Hierarchical Modeling, Inference, and Evaluation
<b>Michael Lynn Stone</b> (September, 2021) Thesis in the field of Chemical Engineering: Catalytic Upgrading of Lignin From Biomass	<b>Ezra Amram Tal</b> (February, 2022) Thesis in the field of Aeronautics and Astronautics: Algorithms for Generation and Tracking of Fast and Agile Flight Trajectories	<b>Alejandro Elio Trujillo</b> (September, 2021) Thesis in the field of Space Systems submitted to the Department of Aeronautics and Astronautics: A Model-based Methodology for Strategic Reuse of Legacy Designs in Space Mission Architecting
<b>Mary Claire Strawser</b> Thesis in the field of Mechanical Engineering: Density-Shift Immunomagnetic Separation for Pathogen Retrieval from Complex Media	<b>Kai-Jher Tan</b> (September, 2021) Thesis in the field of Chemical Engineering: Redox-Active Materials for Electrochemically-Mediated Separations	<b>Dimitrios Tsipras</b> (September, 2021) Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Robust Machine Learning: The Worst Case and Beyond
<b>Sandya Subramanian</b> (September, 2021) Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Measuring Nociception Under Anesthesia	<b>Jennifer Susan Tang</b> (February, 2022) Thesis in the field of Electrical Engineering and Computer Science: Divergence Covering	<b>Yoichiro Tsurimaki</b> (September, 2021) Thesis in the field of Mechanical Engineering: Control of Radiative Heat and Momentum Transfer by Nanophotonic Engineering

<b>Marco Turchetti</b> Thesis in the field of Electrical Engineering and Computer Science: Nano Vacuum Channel Devices for Electronics and Ultrafast Nanophotonics	<b>Jiayue Wang</b> (February, 2022) Thesis in the field of Nuclear Science and Engineering: Engineering Functional Defects for Materials Design in Clean Energy Storage and Conversion Using External Stimuli	<b>Robert Patrick White</b> (September, 2021) Thesis in the field of Nuclear Science and Engineering: Regulatory Frameworks and Evaluation Methodologies for the Licensing of Commercial Fusion Reactors
<b>Ezinne Egondu Uzo-Okoro</b> Thesis in the field of Space Systems submitted to the Department of Aeronautics and Astronautics: Robots Making Satellites: Advancing In-Space Manufacturing Using On-Orbit Robotic Assembly	<b>Sheryl Wang</b> (February, 2022) Thesis in the field of Bioengineering submitted to the Department of Biological Engineering: Engineering Nanolayered Films for Tunable DNA Delivery	<b>Kindle Shea Williams</b> Thesis in the field of Chemical Engineering: Overcoming Challenges of Fundamental Electrochemical Kinetic Studies under Dilute-Reagent Conditions
<b>Nuri Denizcan Vanli</b> (September, 2021) Thesis in the field of Electrical Engineering and Computer Science: Large-Scale Optimization Methods: Theory and Applications	<b>Yi J. Wang</b> (February, 2022) Thesis in the field of Mechanical Engineering: Formation Process of Acoustophoretic Patterns	<b>Lawrence Man Kit Wong</b> (September, 2021) Thesis in the field of Aeronautics and Astronautics: Enabling Effective Safety Learning in Healthcare: Implementing CAST and Designing the STAMP-Based Reporting System
<b>Claudia Elena Varela</b> Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Device-Enabled Biomechanical Modulation of the Infarcted Heart	<b>Yue Wang</b> Thesis in the field of Electrical Engineering and Computer Science: Learning 3D Representations from Data	<b>Yifei Xie</b> (February, 2022) Thesis in the field of Transportation submitted to the Department of Civil and Environmental Engineering: Real-Time Personalized Tolling with Long-Term Objectives
<b>Georgios Varnavides</b> Thesis in the field of Materials Science and Engineering: Electron Hydrodynamics in Crystalline Solids: Microscopic Origins, Mesoscopic Size Effects, and Macroscopic Observables	<b>Wei Wei</b> (February, 2022) Thesis in the field of Transportation submitted to the Department of Civil and Environmental Engineering: Strategic Infrastructure Planning to Enable Personal Vehicle Electrification	<b>Helen Jiang Xu</b> (February, 2022) Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Optimizing Data Movement in Parallel Applications
<b>Rafael Villamor Lora</b> Thesis in the field of Geotechnical and Geoenvironmental Engineering submitted to the Department of Civil and Environmental Engineering: Experimental Investigations on Flow and Mass Transport in Stressed Rough Fractures	<b>Nicole Spence Wein</b> (September, 2021) Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Algorithms and Hardness for Approximating the Diameter of a Graph	<b>Lin Xu</b> (September, 2021) Thesis in the field of Materials Science and Engineering: Thin Film Energy Devices
<b>Malik Mamoon AbdelHalim Wagih</b> (September, 2021) Thesis in the field of Nuclear Science and Engineering: The Spectral Model of Grain Boundary Solute Segregation	<b>Wei-Hung Weng</b> Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Learning Representations for Limited and Heterogeneous Medical Data	<b>Adam Yala</b> Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Machine Learning Methods for Image-based Personalized Cancer Screening
<b>Chi Wang</b> Thesis in the field of Nuclear Science and Engineering: Experimental Investigation of Critical Heat Flux Enhancement on Engineered Surfaces with Infrared Thermometry	<b>Caroline Andrea Werlang</b> (February, 2022) Thesis in the field of Biological Engineering: The Regulation of Bacterial Virulence by Mucin Glycans	<b>Simon Huang Ye</b> (February, 2022) Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Metagenomic Sequencing for Viral Diagnostics and Discovery

**Heun Mo Yoo**

(September, 2021)

Thesis in the field of Electrical Engineering and Computer Science:  
Time, Momentum, Spin, and Energy Resolved Tunneling Spectrum of a Two-Dimensional Electron System

**Tadayuki Yoshitake**

(February, 2022)

Thesis in the field of Electrical Engineering and Computer Science:  
Nonlinear Microscopy System and Protocol for Rapid Evaluation of Freshly Excised Human Tissue

**Zhe Yuan**

(September, 2021)

Thesis in the field of Chemical Engineering: Gas Separation Using Nanoporous Single-Layer Graphene Membranes

**Chulhee Yun**

(September, 2021)

Thesis in the field of Electrical Engineering and Computer Science:  
Optimization for Deep Learning:  
Bridging the Theory-Practice Gap

**Benjamin Jiahong Zhang**

(February, 2022)

Thesis in the field of Computational Science and Engineering: Efficient Sampling Methods of, by, and for Stochastic Dynamical Systems

**Jingzhao Zhang**

(February, 2022)

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science:  
Some Progress in Experiment-Driven Optimization Theory for Machine Learning

**Limiao Zhang**

(February, 2022)

Thesis in the field of Nuclear Science and Engineering: A New Triggering Mechanism of the Boiling Crisis Based on the Percolation Theory and Its Implication

**Xiuming Zhang**

(September, 2021)

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science:  
Shape, Reflectance, and Illumination From Appearance

**Hongbo Zhao**

(September, 2021)

Thesis in the field of Chemical Engineering: Data-Driven Modeling of Lithium Intercalation Materials

**Mingmin Zhao**

(February, 2022)

Thesis in the field of Electrical Engineering and Computer Science:  
Wireless Sensing with Machine Learning:  
Through-Wall Vision and Contactless Health Monitoring

**Ellen D. Zhong**

Thesis in the field of Computational and Systems Biology: Machine Learning for Reconstructing Dynamic Protein Structures from Cryo-EM Images

**Weiyue Zhou**

(September, 2021)

Thesis in the field of Nuclear Science and Engineering: Influence of Environmental Conditions and Proton Irradiation on Molten Salt Corrosion of Metals

**Yu Ren Zhou**

Thesis in the field of Materials Science and Engineering: Transport and Damage in Hydrated Coatings — A Model Soft Active Composite Material

**Leonardo Zaborowski Zornberg**

(February, 2022)

Thesis in the field of Materials Science and Engineering: Optical Interactions in Self-Assembling Systems

**Heng Elizabeth Zuo**

(September, 2021)

Thesis in the field of Aeronautics and Astronautics: Ultrafast Laser Micromachining for Correction of Thin Optics for Next Generation Space X-Ray Telescopes

**Augustine T. Zvinavashe**

(February, 2022)

Thesis in the field of Civil and Environmental Engineering: A Bioinspired Approach to Engineer the Seed Microenvironment

## SCHOOL OF HUMANITIES, ARTS, AND SOCIAL SCIENCES, DOCTORAL

### **Doctor of Philosophy**

School of Humanities, Arts, and Social Sciences

#### **Rafael Meghani Abramovitz**

(September, 2021)

Thesis in the field of Linguistics submitted to the Department of Linguistics and Philosophy: Topics in the Grammar of Koryak

#### **Marc Frederick Aidinoff**

(February, 2022)

Thesis in the field of History, Anthropology, and Science, Technology, and Society submitted to the Program in Science, Technology, and Society: A More Updated Union: A History of New Liberals and Their New Computers in the New New South

#### **Emma Marija Atherton**

(September, 2021)

Thesis in the field of Philosophy submitted to the Department of Linguistics and Philosophy: Let's Talk About Sex: Sexual Ethics, Agency, and Justice Beyond Consent

#### **Sean Anthony Atkins**

Thesis in the field of Political Science: Essays on National Defense in Cyberspace

#### **Neil Banerjee**

(September, 2021)

Thesis in the field of Linguistics submitted to the Department of Linguistics and Philosophy: On the Interaction of Portmanteaux and Ellipsis

#### **Itai Bassi**

(September, 2021)

Thesis in the field of Linguistics submitted to the Department of Linguistics and Philosophy: Fake Features and Valuation from Context

#### **Pedro Bessone Tepedino**

(September, 2021)

Thesis in the field of Economics: Essays on Worker Productivity and Labor Supply

#### **Hector Blanco Fernandez**

Thesis in the field of Economics: The Economic Effects of Public Housing Programs

#### **Marion Boulicault**

(September, 2021)

Thesis in the field of Philosophy submitted to the Department of Linguistics and Philosophy: Values and Science: An Interdisciplinary Feminist Exploration

#### **Ari Bronsoler Nurko**

Thesis in the field of Economics: Essays on Healthcare Delivery Innovation: The Role of Information and Communication Technology

#### **Matthew Franklin Cancian**

Thesis in the field of Political Science: Three Essays on Combatant Psychology Among the Peshmerga of Kurdistan

#### **Luísa Reis Castro**

(September, 2021)

Thesis in the field of History, Anthropology, and Science, Technology, and Society submitted to the Program in Science, Technology, and Society: Vectors of Health: Epidemics, Ecologies, and the Reinvention of Mosquito Science in Brazil

#### **Keny Chatain**

(September, 2021)

Thesis in the field of Linguistics submitted to the Department of Linguistics and Philosophy: Cumulativity from Homogeneity

#### **Daniel G. Clark**

Thesis in the field of Economics: Communication, Information, and Learning

#### **Max Isaac Cytrynbaum**

Thesis in the field of Economics and Statistics: Essays on Experimental Design

#### **Aileen Marie Devlin**

Thesis in the field of Economics: Essays in Health Economics

#### **Richard Alexander Fadok**

(February, 2022)

Thesis in the field of History, Anthropology, and Science, Technology, and Society submitted to the Program in Science, Technology, and Society: In Life's Likeness: Biomimicry and the Imitation of Nature

#### **Suzana Fong**

(September, 2021)

Thesis in the field of Linguistics submitted to the Department of Linguistics and Philosophy: Nominal Licensing: The Syntactic Distribution and Number Interpretation of Bare Nominals in Wolof

#### **Feixue Gong**

Thesis in the field of Economics: Essays in MacroFinance

#### **Aaron Saul Goodman**

Thesis in the field of Economics: Essays in Education Finance

#### **Andrew Halterman**

(September, 2021)

Thesis in the field of Political Science: Three Essays on Natural Language Processing and Information Extraction with Applications to Political Violence and International Security

#### **David William Hughes**

Thesis in the field of Economics and Statistics: Essays in Econometrics

#### **Claire Lazar Reich**

(September, 2021)

Thesis in the field of Economics and Statistics: Methods to Improve Fairness and Accuracy in Machine Learning, with Applications to Financial Algorithms

#### **Jia Hui Lee**

(September, 2021)

Thesis in the field of History, Anthropology, and Science, Technology, and Society submitted to the Program in Science, Technology, and Society: Interstitial Intelligence: Human-Rodent Sensing, Cognition, and Work in Morogoro, Tanzania

**Antoine Boris Levy**  
Thesis in the field of Economics: Essays in Spatial Economics

**Shiyao Liu**  
(September, 2021)  
Thesis in the field of Political Science: Causal Inference with Measurement Errors: with Applications to Experimental and Observational Studies

**Jeremy Isaac Courtney Majerovitz**  
Thesis in the field of Economics: Essays in Empirical Macroeconomics and Development

**Andrea Manera**  
Thesis in the field of Economics: Essays in Innovation, Automation, and Growth

**Jacob Moscona**  
(September, 2021)  
Thesis in the field of Economics: Technological Change and Agricultural Development

**Elise S.B. Newman**  
(September, 2021)  
Thesis in the field of Linguistics submitted to the Department of Linguistics and Philosophy: The (In) Distinction between Wh-Movement and C-Selection

**Rodrigo Ochigame**  
(September, 2021)  
Thesis in the field of History, Anthropology, and Science, Technology, and Society submitted to the Program in Science, Technology, and Society: Remodeling Rationality: An Inquiry into Unorthodox Modes of Logic and Computation

**Zeyu Peng**  
Thesis in the field of Political Science: Labor Reform and Nativist Revolt: The Causes and Implications of Party Position Change on Immigration

**Sara Cristina Plana**  
(September, 2021)  
Thesis in the field of Political Science: The Proxy Paradox: Explaining (Lack of) Control over State-Sponsored Proxy Armed Groups

**Dmitry Konstantinovich Privoznov**  
(September, 2021)  
Thesis in the field of Linguistics submitted to the Department of Linguistics and Philosophy: A Theory of Two Strong Islands

**Anni Aliisa Räty**  
Thesis in the field of Philosophy submitted to the Department of Linguistics and Philosophy: Inside The Moral Nexus: On Wrongs, Rights, and Normative Powers

**Matthew White Ridley**  
Thesis in the field of Economics: Essays on the Economics of Mental Illness and Belief Formation

**Erik Andrew Hustad Sand**  
(September, 2021)  
Thesis in the field of Political Science: Sharing Vulcan's Secrets: Why States Disclose Details of Advanced Military Technology to Other States

**Karthik Amrutur Sastry**  
Thesis in the field of Economics: Bounded Rationality in Macroeconomics

**Patrick Andre Schwarz**  
Thesis in the field of Economics: Essays in Public Finance and Environmental Policy

**Charles Michaël Jacques Serfaty**  
(September, 2021)  
Thesis in the field of Economics: Essays on International Trade and Sovereign Debt

**Rachel Elizabeth Tecott**  
(September, 2021)  
Thesis in the field of Political Science: The Cult of the Persuasive: The U.S. Military's Aversion to Coercion in Security Assistance

**Minh Duc Trinh**  
Thesis in the field of Political Science: Statistical Misreporting: Modern Challenge to Modern Authoritarianism

**Joonas Vilhelm Tuhkuri**  
Thesis in the field of Economics: Essays on Technology and Work

**Pierre-Luc P. Vautrey**  
Thesis in the field of Economics: Essays in Behavioral and Development Economics

**Sean Yixiang Wang**  
Thesis in the field of Economics: Essays on Employment and Human Capital

**Michael Bo-lin Wong**  
Thesis in the field of Economics: Essays in Applied Economics

**Samuel Goericke Young**  
Thesis in the field of Economics: Essays on Labor Market Institutions

## SLOAN SCHOOL OF MANAGEMENT, DOCTORAL

### **Doctor of Philosophy** Sloan School of Management

**Samuel Sobel Anderson**  
Thesis in the field of Management:  
Mispricing and the Demand for  
Fundamental Information

**Kunho Baik**  
Thesis in the field of Management:  
Private Equity Valuation Management  
during Fundraising

**Hari Sri Sai Charan Reddy Bandi**  
(September, 2021)  
Thesis in the field of Operations  
Research: Improving Efficiency and  
Fairness in Machine Learning: a Discrete  
Optimization Approach

**Natalia Berfeld**  
(September, 2021)  
Thesis in the field of Management:  
Auditors' Role in Fair Value Monitoring:  
Evidence from Security-Level Da

**Ki-Soon Choi**  
Thesis in the field of Management: The  
Role of Portfolio Disclosures in the  
Mutual Fund Industry

**Christopher Daniel Lang Coey**  
Thesis in the field of Operations  
Research: Interior Point and Outer  
Approximation Methods for Conic  
Optimization

**Peter Lucas Cohen**  
Thesis in the field of Operations  
Research: Algorithmic Approaches to  
Nonparametric Causal Inference

**Ryan George Cory-Wright**  
Thesis in the field of Operations  
Research: Integer and Matrix  
Optimization: A Nonlinear Approach

**Simon Christopher Arya Trap Friis**  
Thesis in the field of Management:  
Cohering with the Crowd: How  
Audiences Shape the Quasi-Scientific  
Process of Entrepreneurship

**Carolyn Jiaming Fu**  
Thesis in the field of Management: Essays  
on the Locus of Learning and Innovation

**Hussein Hazimeh**  
(September, 2021)  
Thesis in the field of Operations  
Research: Sparse Learning Using Discrete  
Optimization: Scalable Algorithms and  
Statistical Insights

**Pierre Jacques Jaffard**  
Thesis in the field of Management: Essays  
in Asset Pricing

**Lea Kapelevich**  
Thesis in the field of Operations  
Research: Techniques for Handling  
Nonsymmetric Cones in Interior Point  
Algorithms

**Mahreen Khan**  
Thesis in the field of Management: Labor  
and Migration: Essays on Opportunities,  
Vulnerabilities, and Worker Agency in  
Emerging Markets

**Olivia Soohae Kim**  
Thesis in the field of Management: Essays  
in Household Finance

**Madhav Kumar**  
Thesis in the field of Management:  
Scalable Models and Policy Learning for  
Online Marketplaces

**Driss Lahlou Kitane**  
(February, 2022)  
Thesis in the field of Operations  
Research: Sparsity in Machine Learning:  
Theory and Applications

**Michael Lingzhi Li**  
(February, 2022)  
Thesis in the field of Operations  
Research: Scalable Algorithms for  
Optimization and its Applications

**Theodore Philip Papalexopoulos**  
Thesis in the field of Operations  
Research: Multi-Objective Optimization  
for Public Policy

**Ivan Spassimirov Paskov**  
(February, 2022)  
Thesis in the field of Operations  
Research: Stable Machine Learning

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(September, 2021)  
Thesis in the field of Operations  
Research: Healthy Food Access and  
Consumption: Informing Interventions  
Through Analytics

**Jonathan Lawrence Paynter**  
Thesis in the field of Operations  
Research: Modeling Aspects of Military  
Readiness

**Ethan J. Poskanzer**  
Thesis in the field of Management:  
Constructing Entrepreneurial Networks:  
Evidence from a Mentoring Program

**Nicholas J. Renegar**  
(September, 2021)  
Thesis in the field of Operations  
Research: Predictive Analytics and  
Machine Learning for the Risk-Based  
Management of Agricultural Supply  
Chains

**Jad Georges Sassine**  
(September, 2021)  
Thesis in the field of Management: Essays  
in System Dynamics

**Parinitha R. Sastry**  
Thesis in the field of Management: Essays  
in Finance and Climate Risks

**Bryan Seegmiller**  
Thesis in the field of Management: Essays  
in Financial and Labor Markets

**Omar Skali Lami**  
Thesis in the field of Operations  
Research: Predictive and Prescriptive  
Analytics in Operations Management

**Matthew David Sobiesk**  
(February, 2022)  
Thesis in the field of Operations  
Research: Machine Learning Algorithms  
and Applications in Health Care

**Sebastian Steffen**  
Thesis in the field of Management: Essays  
on Information Technologies, Human  
Capital, and the Future of Work

**Jian Sun**

Thesis in the field of Management:  
Essays on Corporate Finance Theory and  
Dynamic Games

**Yupeng Wang**

Thesis in the field of Management: Essays  
in Financial Economics

**George Ward**

Thesis in the field of Management:  
Happiness at Work: Essays on Subjective  
Wellbeing in the Workplace and Labor  
Market

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Thesis in the field of Operations  
Research: Data-Driven Healthcare via  
Constraint Learning and Analytics

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Thesis in the field of Management: Essays  
on the Role of Metrics in Innovation

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Thesis in the field of Operations Research:  
Financial and Analytic Innovations for  
Therapeutic Development

**Yuting Zhu**

Thesis in the field of Management:  
Augmented Machine Learning and  
Optimization for Marketing

## SCHOOL OF SCIENCE, DOCTORAL

### **Doctor of Philosophy**

School of Science

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Thesis in the field of Biology: Insights from Biomolecular Condensates into Disease and Drug Development

#### **Fiona Aguilar**

Thesis in the field of Biochemistry submitted to the Department of Biology: Exploring the Activation Landscape of Pro-Apoptotic BAK Through the Discovery of BH3-Only and Non-Native Peptide Binders

#### **Grace Putka Ahlqvist**

Thesis in the field of Chemistry submitted to the Department of Chemistry: Robust Processes for Polymer Modification and Pharmaceutical Synthesis

#### **Jie Jun Ang**

Thesis in the field of Mathematics: Integrability in Random Conformal Geometry

#### **Lindsey Richelle Fernandez Backman**

Thesis in the field of Chemistry submitted to the Department of Chemistry: Structural and Biochemical Characterization of Glycyl Radical Enzymes Abundant in Mammalian Gut Microbiota

#### **Salima Bahri**

(September, 2021)

Thesis in the field of Chemistry submitted to the Department of Chemistry: Structural Studies of Amyloid- $\beta$  Fibrils using Magic Angle Spinning Nuclear Magnetic Resonance and Dynamic Nuclear Polarization

#### **Ethan Alexander García Baker**

Thesis in the field of Computational and Systems Biology submitted to the Department of Biology: Experimental Design and Analysis for High-Parameter Spatial Omics

#### **Ulugbek Barotov**

Thesis in the field of Chemistry submitted to the Department of Chemistry: Highly Efficient Superradiant Emission from Molecular J-Aggregates

#### **Eric Beauche**

(September, 2021)

Thesis in the field of Geophysics submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Analyzing the Collective Behavior of Earthquakes to Understand Fault Mechanisms Better

#### **Bridget Elizabeth Begg**

(February, 2022)

Thesis in the field of Biology: Concentration-Dependent Splicing via Suboptimal Motifs Enables Waves of Gene Regulation in Neuronal Development

#### **Carina Aiello Belvin**

Thesis in the field of Physics: Ultrafast Terahertz Spectroscopy of Collective Excitations in Correlated Materials

#### **Santiago José Benavides**

(February, 2022)

Thesis in the field of Atmospheric Science submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Turbulence in Geophysics: From Rotating, Ionized Fluids to Sediment Transport

#### **Adam Jerome Bene Watts**

(September, 2021)

Thesis in the field of Physics: Identifying Perfect Nonlocal Games

#### **Mika Braginsky**

(February, 2022)

Thesis in the field of Cognitive Science submitted to the Department of Brain and Cognitive Sciences: Language Learning at Scale: Data-Driven and Model-Motivated Analyses of Lexical and Morphological Development

#### **Christopher Paul Breen**

(September, 2021)

Thesis in the field of Chemistry submitted to the Department of Chemistry: Flow Chemistry Guided by Computer-Aided Synthesis Planning

#### **Robert W. Burklund**

Thesis in the field of Mathematics: Multiplicative Structures on Moore spectra

#### **Nicholas Gregory Buzinsky**

(September, 2021)

Thesis in the field of Physics: Statistical Signal Processing and Detector Optimization in Project 8

#### **Andres Campero Nuñez**

Thesis in the field of Artificial Intelligence and Collective Intelligence submitted to the Department of Brain and Cognitive Sciences: Combining Diverse Forms of Human and Machine Intelligence

#### **Andrew Louis Cangelosi**

Thesis in the field of Biology: Nutrient Sensing by the mTORC1 Pathway in Physiology

#### **Wei Jia Chen**

(February, 2022)

Thesis in the field of Chemistry submitted to the Department of Chemistry: Exploring Structure Function Relationship Using Bio-Inspired DNA-Chromophore Complexes

#### **Yoon Andrew Cho-Park**

(February, 2022)

Thesis in the field of Biology: Translational Control of Programmed Cell Death

#### **Alexi Georges Choueiri**

Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: Single-Molecule Protein Sequencing (I) and Genetically Dominant mRNA Therapies to Combat Viral Evolution (II)

#### **Holly Colleen Noelle Christensen**

(September, 2021)

Thesis in the field of Biology: Gene Expression Changes during Mammalian Male Meiotic Initiation

#### **Emily Lauryn Clark**

(September, 2021)

Thesis in the field of Microbiology submitted to the Department of Biology: Interactions between Mobile Genetic Elements and Their Bacterial Hosts

**Eliot Leo Coffey**  
(September, 2021)  
Thesis in the field of Molecular Biology  
submitted to the Department of  
Biology: Biomolecular Condensates in  
Transcriptional Regulation

**Daniel Richard Corbi**  
(September, 2021)  
Thesis in the field of Biology:  
Transcription Regulates Biased  
Mitochondrial DNA Inheritance

**Emily June Crabb**  
Thesis in the field of Physics: Improving  
Understanding of Lithium–Oxygen  
Batteries Using Atomistic Simulations

**Amanda Margarita Cruz**  
(September, 2021)  
Thesis in the field of Biology:  
Interrogation of Changes in Cell State  
during Tumor Evolution of a Genetically  
Engineered Mouse Model of Lung  
Adenocarcinoma

**Karen Leopold Cunningham**  
Thesis in the field of Neurobiology  
submitted to the Department of  
Biology: Regulation of Voltage Gated  
Calcium Channels at the Drosophila  
Neuromuscular Junction

**Kyan Anthony D'Angelo**  
(February, 2022)  
Thesis in the field of Chemistry  
submitted to the Department of  
Chemistry: Total Synthesis of Himastatin

**Michael Austin DeMarco**  
Thesis in the field of Physics: Chiral  
Phases on the Lattice

**Marlis Kristina Denk-Lobrig**  
(September, 2021)  
Thesis in the field of Biology: Organizing  
Morphogenesis: Mechanisms of  
Actomyosin Patterning by RhoGTPase  
Signaling

**Aravind Devarakonda**  
(September, 2021)  
Thesis in the field of Physics: Periodically  
Modulated Electronic States in Natural  
Superlattices

**Frances Flewelling Diehl**  
(September, 2021)  
Thesis in the field of Biochemistry  
submitted to the Department of Biology:  
Metabolic Regulation of Mammalian Cell  
Growth and Proliferation

**Deepshikha Dogra**  
(September, 2021)  
Thesis in the field of Biology:  
Investigating the Role of a JNK-like  
MAP Kinase Pathway in Dauer Entry in  
Caenorhabditis Elegans

**Aurelio James Dregni**  
Thesis in the field of Chemistry  
submitted to the Department of  
Chemistry: Functional and Pathological  
States of the Protein Tau Investigated  
with Solid-State NMR

**Margaret Louise Duffy**  
(September, 2021)  
Thesis in the field of Climate Science  
submitted to the Department of Earth,  
Atmospheric, and Planetary Sciences:  
An Energetic Perspective of the Tropical  
Atmosphere and Its Response to Climate  
Warming

**Ellen Duong**  
(February, 2022)  
Thesis in the field of Immunology  
submitted to the Department of Biology:  
Elucidating the Functional States of  
Tumor-Resident Dendritic Cells that  
Drive Productive Anti-Tumor Immunity

**Joseph Ahmed Elsherbin**  
(September, 2021)  
Thesis in the field of Microbiology  
submitted to the Department of Biology:  
High-Resolution Time Series Reveals  
Differential Behaviors of Closely-Related  
Microbes in Coastal Communities

**Daniel Masao Estandian**  
(September, 2021)  
Thesis in the field of Neuroscience  
submitted to the Department of Brain  
and Cognitive Sciences: Paths towards  
Next Generation Protein Sequencing

**Samuel Isaac Etkind**  
Thesis in the field of Chemistry  
submitted to the Department of  
Chemistry: The Synthesis and  
Application of 1,4-Dithiins, Thianthrenes,  
and Other Sulfur-Rich Scaffolds

**Ali Fahimniya**  
(September, 2021)  
Thesis in the field of Physics: Bloch-  
Oscillating Electrons in Moiré  
Superlattices

**Sheng Feng**  
Thesis in the field of Chemistry  
submitted to the Department of  
Chemistry: Development of Copper(I)  
Hydride-Catalyzed Asymmetric Olefin  
Hydrofunctionalization Reactions

**Patrick John Fitzpatrick**  
(September, 2021)  
Thesis in the field of Physics: Initial  
Conditions for Cosmic Inflation, the  
History of the Dark Sector, and Dark-  
Onium

**Katelyn Michelle Flick**  
Thesis in the field of Neuroscience  
submitted to the Department of Brain  
and Cognitive Sciences: Dopaminergic  
Regulation of Amygdala Circuits for Fear  
Extinction

**Kristen Marie Flynn**  
(February, 2022)  
Thesis in the field of Chemistry  
submitted to the Department of  
Chemistry: Directed Palladium  
Catalyzed Acetoxylation of Indolines  
and Enantioselective Total Synthesis of  
(-)-Voacinal and (-)-Voacandimine C

**Yibo Gao**  
Thesis in the field of Mathematics:  
Symmetric Structures in the Weak and  
Strong Bruhat Orders

**Matthias Ginterseder**  
Thesis in the field of Chemistry  
submitted to the Department of  
Chemistry: Synthetic Design of Optical  
Emitters

**Michaela Anne Gold**  
Thesis in the field of Microbiology  
submitted to the Department of Biology:  
Mucin and Mucin Glycans Alter Behavior  
of Mucosal Pathogens

**Samuel Lukens Goldberg**  
(September, 2021)  
Thesis in the field of Geology submitted  
to the Department of Earth, Atmospheric,  
and Planetary Sciences: Climatic and  
Tectonic Controls on Continental River  
Systems

<b>Jesse Gordon</b> (September, 2021) Thesis in the field of Chemistry submitted to the Department of Chemistry: Exploring the Structural Dynamics of Bacterial Chemotaxis	<b>Theresa Hwang</b> (February, 2022) Thesis in the field of Biology: How Short, Degenerate Motifs across the Human Proteome Recognize the Actin Remodeling Factor ENAH	<b>Jibril Fetu Kedir</b> (February, 2022) Thesis in the field of Biology: Regulation of Amino Acid Transport across the Lysosomal Surface by the mTORC1 Pathway
<b>Brian James Graham</b> (September, 2021) Thesis in the field of Chemistry submitted to the Department of Chemistry: Catalytic and Biological Applications of Benzoxaborolones	<b>Andrei Ionov</b> Thesis in the field of Mathematics: Tilting Sheaves for Real Groups and Koszul Duality	<b>Sora Kim</b> Thesis in the field of Biochemistry submitted to the Department of Biology: Structural Principles of Substrate Recognition and Unfolding by the ClpAP and ClpXP AAA+ Proteases
<b>Xin Gu</b> (February, 2022) Thesis in the field of Biology: How do Animals Sense and Integrate Nutrient Availability?	<b>Sung Woo Jeong</b> (February, 2022) Thesis in the field of Mathematics: Linear Algebra, Random Matrices and Lie Theory	<b>Elena Ruth Kingston</b> (September, 2021) Thesis in the field of Biochemistry submitted to the Department of Biology: Regulation of microRNA Degradation Rates
<b>Shalini Gupta</b> Thesis in the field of Biochemistry submitted to the Department of Biology: An ORC Flip Enables Bidirectional Helicase Loading	<b>Paul Niklas Jepsen</b> (February, 2022) Thesis in the field of Physics: Spin Dynamics in a Tunable Heisenberg Model Realized with Ultracold Atoms	<b>Nathan Doyle Klein</b> (September, 2021) Thesis in the field of Chemistry submitted to the Department of Chemistry: Exciton Dynamics in Organic and Inorganic Nanoscale Materials
<b>Linus Ulysses Hamilton</b> Thesis in the field of Mathematics: Applications and Limits of Convex Optimization	<b>Zhongling Jiang</b> Thesis in the field of Chemistry submitted to the Department of Chemistry: Investigating the Role of Molecular Motors on Chromatin Organization	<b>Ryan Edward Kohn</b> (February, 2022) Thesis in the field of Biology: Comparison of Wild-Type and Hotspot Mutant p53 Interactomes
<b>Dustin Jared Hayden</b> (February, 2022) Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: Passive Experience-Dependent Plasticity in Mouse Primary Visual Cortex	<b>Pakawut Jiradilok</b> Thesis in the field of Mathematics: Inequalities and Asymptotic Formulas in Algebraic Combinatorics	<b>Linghang Kong</b> (February, 2022) Thesis in the field of Physics: Features And Applications of Random Unitaries
<b>Samuel Joseph Hendel</b> Thesis in the field of Chemistry submitted to the Department of Chemistry: Continuous Directed Evolution in Mammalian Cells	<b>Grace Eleanor Johnson</b> (September, 2021) Thesis in the field of Molecular Biology submitted to the Department of Biology: Redefining the Coordination of Gene Expression Machineries in <i>Bacillus subtilis</i>	<b>Heather Lynne Kosakowski</b> Thesis in the field of Cognitive Science submitted to the Department of Brain and Cognitive Sciences: Interrogating the Infant Mind with fMRI
<b>Luke Hewitt</b> (February, 2022) Thesis in the field of Cognitive Science submitted to the Department of Brain and Cognitive Sciences: What's at Stake in Political Messaging?	<b>Neel Vinayak Kabadi</b> (February, 2022) Thesis in the field of Physics: Exploring Evolution of Multi-ion Effects and Electron Temperature in ICF Implosions at Omega and the NIF	<b>Elaine Yih-Shuen Kuo</b> (February, 2022) Thesis in the field of Biology: Elucidating the Role of BMI1 in Lung and Colon Tumor Maintenance and Progression
<b>Kai Huang</b> Thesis in the field of Mathematics: K-stability of Log Fano Cone Singularities	<b>Tobias Kaiser</b> (September, 2021) Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: Microglia and Myelin: Improved Tools for Their Study and Molecular Interactions between Them	<b>Andrew P. Latham</b> Thesis in the field of Chemistry submitted to the Department of Chemistry: Maximum Entropy Optimization: a General Approach to Study Ordered and Disordered Proteins Reveals Key Features of Protein Phase Separation
<b>Joonseok Hur</b> Thesis in the field of Physics: Probing New Physics with Spectroscopy of Trapped Ions		

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<b>Samuel Aaron Wehlau Leutheusser</b> Thesis in the field of Physics: Emergent Times in Holographic Duality	<b>Shujuan Mao</b> (September, 2021) Thesis in the field of Geophysics submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Monitoring and Imaging Seismic Velocity Changes across Temporal and Spatial Scales	<b>Brian Cornier Michael</b> (February, 2022) Thesis in the field of Chemistry submitted to the Department of Chemistry: Structural Characterization of Plaque Seeded Amyloid- $\beta$ Fibrils by Magic Angle Spinning NMR
<b>Gen Li</b> Thesis in the field of Chemistry submitted to the Department of Chemistry: Organophosphorus Catalyzed Reductive Transformation of Nitro Compounds via P(III)/P(V) Redox Couple	<b>Travis Marshall-Roth</b> Thesis in the field of Chemistry submitted to the Department of Chemistry: Synthetic Molecular Models for the Oxygen Reduction Active Sites in Heteroatom-Doped Graphitic Electrocatalysts: Linking Heterogeneous and Homogeneous Electrocatalysis	<b>Luis Rubén Millán-Barea</b> (February, 2022) Thesis in the field of Biology: Stimulation of Chemotherapy-Induced Immunity by Targeting IL-6 in the Tumor Microenvironment
<b>Jiarui Li</b> Thesis in the field of Physics: Electronic Structure and Emergent Orders in Correlated Nickelates	<b>Harry Ray Matchette-Downes</b> (September, 2021) Thesis in the field of Geophysics submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Some Studies on the Computation and Interpretation of Seismic Interface Waves and Modes in Earth's Mantle	<b>Christine Anne Moomau</b> (February, 2022) Thesis in the field of Biology: Exploring the Role of Aneuploidy in Phenotypic Variability
<b>Rasia Li</b> Thesis in the field of Chemistry submitted to the Department of Chemistry: The C-Propeptide in Collagen Proteostasis	<b>Clara Maurel</b> (September, 2021) Thesis in the field of Planetary Sciences submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Magnetic Properties of Iron Meteorites and Their Parent Bodies	<b>Juhee Park Morehouse</b> Thesis in the field of Biochemistry submitted to the Department of Biology: Noncanonical Recognition and Degradation of a Stable Soluble Protein by E. coli AAA Protease FtsH
<b>Ziwei Li</b> (September, 2021) Thesis in the field of Atmospheric Science submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Understanding the Characteristics of Precipitation and Their Response to Climate Change	<b>Alexandra Ross McIsaac</b> (September, 2021) Thesis in the field of Chemistry submitted to the Department of Chemistry: Semiconducting Devices and Nanomaterials: Insight from Computational Chemistry	<b>Raymundo Moya III</b> (February, 2022) Thesis in the field of Chemistry submitted to the Department of Chemistry: Heterogenous Ultrafast Energy Relaxation in Photosynthetic Proteins
<b>Halston Brandon Lim</b> Thesis in the field of Physics: Modeling the Dynamics of Black Hole Systems and the Ringdown of Black Hole Spacetimes	<b>Saria Armena McKeithen-Mead</b> Thesis in the field of Biology: Interplay between an Integrative and Conjugative Element and Its Bacterial Host	<b>Biswaroop Mukherjee</b> (February, 2022) Thesis in the field of Physics: Homogeneous Quantum Gases: Strongly Interacting Fermions and Rotating Bosonic Condensates
<b>Jonathan Lin</b> (February, 2022) Thesis in the field of Atmospheric Science submitted to the Department of Earth, Atmospheric, and Planetary Sciences: On Intraseasonal Variability in the Tropics: Tropical Cyclones, the Madden-Julian Oscillation, and Equatorial Waves	<b>Sarah Jane Mear</b> Thesis in the field of Chemistry submitted to the Department of Chemistry: Stereoselective and Economical Methods for Chemical Synthesis of Essential Medicines	<b>Kyaw Hpone Myint</b> Thesis in the field of Chemistry submitted to the Department of Chemistry: Understanding Cation Catalytic Effects in Electron Transfer Reactions at Molecular Scale
<b>Deena Al Mahbuba</b> Thesis in the field of Chemistry submitted to the Department of Chemistry: Roles for Cell Surface Glycans in Guiding Human Pluripotent Stem Cell Fate		

<b>Ashwin Narayan</b> Thesis in the field of Mathematics: Similarity Metrics for Biological Data	<b>Watcharaphol Paritmongkol</b> (September, 2021) Thesis in the field of Chemistry submitted to the Department of Chemistry: Syntheses and Photophysical Studies of Two-Dimensional Hybrid Organic-Inorganic Semiconductors	<b>Deborah Allison Pohlmann</b> (February, 2022) Thesis in the field of Biology: Regulation of Active DNA Demethylation and Its Role in Fertility in <i>Arabidopsis thaliana</i>
<b>Alexandra Patricia Navarro</b> (February, 2022) Thesis in the field of Cell Biology submitted to the Department of Biology: Dynamic Properties of the Constitutive Centromere Associated Network of Proteins	<b>Minjae Park</b> Thesis in the field of Mathematics: Random Surface Interpretations of Two- Dimensional Liouville Quantum Gravity and Yang-Mills Theory	<b>Eli Barton Pollock</b> Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: Understanding Computation through Low-Dimensional Dynamics with Recurrent Neural Networks
<b>Andrew Warren Navia</b> Thesis in the field of Chemistry submitted to the Department of Chemistry: Discovery of Microenvironment Drivers of Cell States, Plasticity and Drug Response	<b>Parth B. Patel</b> Thesis in the field of Physics: Quantum Transport in Strongly Interacting, Ultracold Fermi Gases in Box Potentials	<b>Yifeng Qi</b> (February, 2022) Thesis in the field of Chemistry submitted to the Department of Chemistry: Data-Driven Mechanistic of 3D Human Genome
<b>Maxwell Isaac Nye</b> (February, 2022) Thesis in the field of Cognitive Science submitted to the Department of Brain and Cognitive Sciences: Search and Representation in Program Synthesis	<b>Matthew A. Pearson</b> Thesis in the field of Chemistry submitted to the Department of Chemistry: Controlling the Properties of Polymer Metal-Organic Frameworks and Cages Through Polymer Ligand Design	<b>Peng Qian</b> Thesis in the field of Cognitive Science submitted to the Department of Brain and Cognitive Sciences: Cause, Composition, and Structure in Language
<b>Danielle Marie Orozco Cosio</b> Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: Development of Optical Tools and Techniques Toward a Functional Connectomic Understanding of <i>C. elegans</i>	<b>Madeline C. Pelz</b> (September, 2021) Thesis in the field of Cognitive Science submitted to the Department of Brain and Cognitive Sciences: Bootstrapping New Knowledge from Abstract Representations	<b>Ke Qin</b> (February, 2022) Thesis in the field of Chemistry submitted to the Department of Chemistry: Control of Network Topology in Photopolymer Networks for Additive Manufacturing
<b>Anthony Fidel Ortiz Lopez</b> (September, 2021) Thesis in the field of Microbiology submitted to the Department of Biology: Bacterial Interspecies Interactions and Microbial Community Assembly	<b>Huy Duc Phan</b> (September, 2021) Thesis in the field of Physics: Precision Measurements of Neon, Magnesium, and Silicon Flux in Cosmic Rays with the Alpha Magnetic Spectrometer on the International Space Station	<b>Xiaoting Qin</b> (February, 2022) Thesis in the field of Physics: Measurement of the Fluorine, Sodium, and Aluminum Fluxes in Cosmic Rays with the AMS Experiment on the International Space Station
<b>Jeremy A. Owen</b> Thesis in the field of Physics: Sensitivity and Memory in Physics and Biology	<b>Grace Barker Phelps</b> Thesis in the field of Biology: Establishment of MITF and TAZ as Major Determinants of Uveal Melanoma	<b>John Michael Replogle</b> (February, 2022) Thesis in the field of Genetics submitted to the Department of Biology: The Benefits and Detriments of Aneuploidy in Cancer
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<b>AfroditI Papadopoulou</b> Thesis in the field of Physics: Lepton- Nucleus Constraints for Neutrino Interactions and Oscillations	<b>Luiz Gustavo Pimenta Martins</b> Thesis in the field of Physics: High- Pressure Studies of Atomically-Thin van der Waals Materials	<b>Daniel Rodan Legrain</b> Thesis in the field of Physics: Graphene-Based Nanodevices in the Superconducting and Strongly Correlated Regimes
<b>Michał Papaj</b> (September, 2021) Thesis in the field of Physics: Quantum Transport in Topological Phases of Matter		

**Field Rose Rogers**

Thesis in the field of Physics:  
Applications of X-ray Instrumentation for  
Dark Matter Searches with Cosmic-ray  
Antiparticles

**Jaeyune Ryu**

(September, 2021)  
Thesis in the field of Chemistry  
submitted to the Department of  
Chemistry: Tuning Heterogeneous  
Catalysis Using Interfacial Polarization

**Mari Saif**

(February, 2022)  
Thesis in the field of Chemistry  
submitted to the Department of  
Chemistry: Experimental and  
Computational Methods for Shortwave  
Infrared Imaging

**Morteza Sarafyazd**

(September, 2021)  
Thesis in the field of Neuroscience  
submitted to the Department of Brain  
and Cognitive Sciences: Hierarchical  
Reasoning in the Brain

**Joshua Clayton Saul**

(February, 2022)  
Thesis in the field of Molecular Biology  
submitted to the Department of Biology:  
Regulation of Cell-Identity Maintenance  
in *C. elegans*

**Chad William Sauvola**

(September, 2021)  
Thesis in the field of Neuroscience  
submitted to the Department of Brain  
and Cognitive Sciences: Investigating the  
Role of Drosophila Tomosyn in Synaptic  
Strength and Plasticity

**Carly Katherine Schissel**

(February, 2022)  
Thesis in the field of Chemistry  
submitted to the Department of  
Chemistry: Design of Nuclear-Targeting  
Peptides for Macromolecule Delivery  
Using Machine Learning

**Tajana Schneiderman**

Thesis in the field of Planetary Sciences  
submitted to the Department of Earth,  
Atmospheric, and Planetary Sciences:  
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**Martin Schrimpf**

Thesis in the field of Neuroscience  
submitted to the Department of Brain  
and Cognitive Sciences: Advancing  
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**Sarah Elizabeth Schwettmann**

(September, 2021)  
Thesis in the field of Cognitive Science  
submitted to the Department of Brain  
and Cognitive Sciences: Generalizable  
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and Artificial Neural Networks

**Cauê Sciascia Borlina**

(February, 2022)  
Thesis in the field of Planetary Sciences  
submitted to the Department of Earth,  
Atmospheric, and Planetary Sciences:  
Constraining Planetary Science Problems  
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**Francesco Sciortino**

(September, 2021)  
Thesis in the field of Physics:  
Experimental Inference of Particle  
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**Rebecca Michelle Sebastian**

Thesis in the field of Chemistry  
submitted to the Department of  
Chemistry: Leveraging HSF1 Chemical-  
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**Haitao Shang**

(September, 2021)  
Thesis in the field of Earth, Atmospheric  
and Planetary Sciences submitted to  
the Department of Earth, Atmospheric  
and Planetary Sciences: Theory  
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**Chengyang Shao**

Thesis in the field of Mathematics: Long  
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**Alexander Aleksandrovich Shcherbakov**

(February, 2022)  
Thesis in the field of Chemistry  
submitted to the Department of  
Chemistry: New Tools for Structural  
Biology and Biophysics: High-  
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**Wenbi Shcherbakov-Wu**

Thesis in the field of Chemistry  
submitted to the Department of  
Chemistry: Exciton Dynamics in  
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**Scott Michael Shepard**

(September, 2021)  
Thesis in the field of Chemistry  
submitted to the Department of  
Chemistry: Activated Phosphate  
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**Zhaozhong Shi**

(September, 2021)  
Thesis in the field of Physics: Analysis of  
Beauty Quark Hadronization in Vacuum  
and Quark-Gluon Plasma with CMS

**Rohini Bhimsen Shivamoggi**

(February, 2022)  
Thesis in the field of Atmospheric Science  
submitted to the Department of Earth,  
Atmospheric, and Planetary Sciences:  
Secondary Eyewall Formation as a  
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**Alexander F. Siegenfeld**

Thesis in the field of Physics:  
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**Dominic John Skinner**

Thesis in the field of Mathematics:  
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**Grigorii Skorupskii**

(September, 2021)  
Thesis in the field of Chemistry  
submitted to the Department of  
Chemistry: Electrically Conductive  
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**Tyler Alan Smith**

Thesis in the field of Biology: High-  
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**Mehdi Soleimanifar**

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<b>Taweewat Somboonpanyakul</b> (September, 2021) Thesis in the field of Physics: Searching for Extreme-BCG Clusters at $0.2 < z < 1.3$	<b>Akira Tanushi</b> (September, 2021) Thesis in the field of Chemistry submitted to the Department of Chemistry: Nonspectator Reactivity of Nontrigonal Tricoordinate Phosphorus Ligands	<b>Marie-Sophie Helene van der Goes</b> Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: Cortico-Thalamic Interactions for Head Direction Coding
<b>Arun Sridharan</b> Thesis in the field of Chemistry submitted to the Department of Chemistry: Investigations of Iron-Nitrogen Bonding at Synthetic Iron-Sulfur Clusters	<b>Allegra Louise Terhorst</b> (September, 2021) Thesis in the field of Cell Biology submitted to the Department of Biology: The Role of the Environmental Stress Response in Aneuploid and Cell Cycle-Arrested Budding Yeast	<b>Shreya Vardhan</b> Thesis in the field of Physics: Chaos and Thermalization in Quantum Many-Body Systems and Gravity
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<b>Maya F. Stokes</b> (September, 2021) Thesis in the field of Geology submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Dynamic Rivers Drive Landscape Change and Biological Evolution	<b>Mary Katherine Thompson</b> (September, 2021) Thesis in the field of Molecular Biology submitted to the Department of Biology: Nucleoid Condensation in <i>Escherichia coli</i> by the DNA-binding Protein SymE	<b>Zachary Vendeiro</b> (September, 2021) Thesis in the field of Physics: Raman Cooling and Rydberg Cavity QED
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<b>Chenyue Sun</b> (September, 2021) Thesis in the field of Chemistry submitted to the Department of Chemistry: Synthesis of Metal-Organic Frameworks and Crystalline Porous Polymers and Studies of Their Reactivity	<b>Maggie Tse</b> Thesis in the field of Physics: Squeezed Vacuum Injection in Advanced LIGO: Enhancing Gravitational-Wave Detection Using Quantum States of Light	<b>Ruoxi Wendy Wang</b> (February, 2022) Thesis in the field of Biology: A Mechanistic Evaluation of the Role of Aneuploidy During Oncogenesis
<b>Hongyu Sun</b> Thesis in the field of Geophysics submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Learning Seismic Waves for Imaging the Earth	<b>John Cameron Urschel</b> (September, 2021) Thesis in the field of Mathematics: Graphs, Principal Minors, and Eigenvalue Problems	<b>Wencong Wang</b> Thesis in the field of Chemistry submitted to the Department of Chemistry: Efficient Synthetic Strategies for Discrete Macromolecules: Enabling Exploration of Structure-Property Relationships in Biological and Materials Applications
<b>Madeleine Sutherland</b> Thesis in the field of Chemistry submitted to the Department of Chemistry: Coordination among Proteins, Lipids and Water in Membrane Fusion and Fission Probed by Solid-State NMR	<b>Aleksandra Utiralova</b> Thesis in the field of Mathematics: Harish-Chandra Bimodules in Complex Rank	<b>Yimin Wang</b> (February, 2022) Thesis in the field of Physics, Statistics, and Data Science submitted to the Department of Physics: New Techniques in Low-Q2 Elastic Electron-Proton Scattering Measurements and the Proton Radius Extraction
<b>Julie Sant'Anna Takagi</b> Thesis in the field of Biology: Analyzing the Role of Mucin O-Glycans in Regulating Microbial Virulence	<b>Kaavya G. Valiveti</b> (September, 2021) Thesis in the field of Mathematics: The Fock-Schwartz Spin Representation Space	<b>Araminta Amabel Wilson</b> Thesis in the field of Mathematics: Genera via Deformation Theory and Supersymmetric Mechanics
		<b>Molly Madeline Wilson</b> Thesis in the field of Biology: Transcriptional Regulators in Stem Cell Biology

**Zhenjie Yan**  
(February, 2022)  
Thesis in the field of Physics: Quasi-particle Breakdown and Heat Transport in a Homogeneous Strongly-Interacting Fermi Gas

**Jeehyun Yang**  
(February, 2022)  
Thesis in the field of Physical Chemistry submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Experiment and Modeling Combined Kinetic Study of Bottom-up Polycyclic Aromatic Hydrocarbon Formations

**Luming Yang**  
(September, 2021)  
Thesis in the field of Chemistry submitted to the Department of Chemistry: Investigation of Triphenylene-Based Radical-Containing Ligand Bridges in Mediating Electronic Spin Coupling and Sensing Chemical Analytes

**Ruoxuan Yang**  
Thesis in the field of Mathematics: Stable and Unstable Shock Formation of the Burgers-Hilbert Equation

**Lauren Elizabeth Yates**  
(February, 2022)  
Thesis in the field of Physics: Using the MicroBooNE Liquid Argon Detector to Search for Electron Neutrino Interactions and Understand the MiniBooNE Anomaly

**Mengshan Ye**  
Thesis in the field of Chemistry submitted to the Department of Chemistry: Organometallic Chemistry in Fe-S Clusters

**Kosuke Yoshinaga**  
(September, 2021)  
Thesis in the field of Chemistry submitted to the Department of Chemistry: A Showcase of Functional Fluorous Materials and Their Applications

**Emily M. Zygier**  
(September, 2021)  
Thesis in the field of Chemistry submitted to the Department of Chemistry: Investigation of Microbial Responses to Transition Metal Sequestration by the Innate Immune Protein Calprotectin

## AWARDED JOINTLY WITH THE WOODS HOLE OCEANOGRAPHIC INSTITUTION, DOCTORAL

### Doctor of Philosophy

#### **Lydia Claire Babcock-Adams**

Thesis in the field of Chemical Oceanography submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Molecular Characterization of Organically Bound Copper in the Marine Environment

#### **EeShan Chetan Bhatt**

(September, 2021)  
Thesis in the field of Mechanical and Oceanographic Engineering submitted to the Department of Mechanical Engineering: An Virtual Ocean Framework for Environmentally Adaptive, Embedded Acoustic Navigation on Autonomous Underwater Vehicles

#### **Henri Francois Drake**

(September, 2021)  
Thesis in the field of Physical Oceanography submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Control of the Abyssal Ocean Overturning Circulation by Mixing-Driven Bottom Boundary Layers

#### **Daniel Michael Duane**

(February, 2022)  
Thesis in the field of Oceanographic Engineering submitted to the Department of Mechanical Engineering: The Effect of Attenuation from Fish on Long-Range Active and Passive Acoustic Sensing in the Ocean

#### **Michaela Fendrock**

Thesis in the field of Paleoclimate submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Questions and Clarity: Insights from Applying Computational Methods to Paleoclimate Archives

#### **Mara Amelia Freilich**

(September, 2021)  
Thesis in the field of Physical Oceanography submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Vertical Fluxes in the Upper Ocean

#### **Joleen Heiderich**

(September, 2021)  
Thesis in the field of Physical Oceanography submitted to the Department of Earth, Atmospheric, and Planetary Sciences: The Gulf Stream: Along-Stream Evolution of Volume Transport and Water Properties Observed by Underwater Gliders

#### **Tianyi Huang**

(September, 2021)  
Thesis in the field of Chemical Oceanography submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Investigating Chromium Cycling in Global Oxygen Deficient Zones with Chromium Isotopes

#### **Ian Thomas Jones**

(September, 2021)  
Thesis in the field of Marine Biology (jointly with WHOI) submitted to the Department of Biology: Assessing Anthropogenic Noise Impacts and Relevant Soundscape Cues for Marine Invertebrates: Leveraging Squid and Coral Reefs as Model Systems

#### **Jennifer Shizu Karolewski**

Thesis in the field of Chemical Oceanography submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Coupled Biogeochemical Cycling of Metals with Nitrogen and Carbon in Aquatic Environments

#### **Marissa Morgan Kellogg**

Thesis in the field of Chemical Oceanography submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Assessing the Potential for Zinc Limitation of Marine Primary Production: Proteomic Characterization of the Low Zinc Stress Response in Marine Diatoms

#### **Jennifer An Kenyon**

(February, 2022)  
Thesis in the field of Chemical Oceanography submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Anthropogenic and Natural Radioisotopes as Tracers for Contaminant Sources and Particulate Fluxes

#### **Kristen Railey Kita**

(February, 2022)  
Thesis in the field of Mechanical and Oceanographic Engineering submitted to the Department of Mechanical Engineering: Advances in Passive Acoustic Detection, Localization, and Tracking Applied to Unmanned Underwater Vehicles

#### **Sheron You-Xian Luk**

(February, 2022)  
Thesis in the field of Chemical Oceanography submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Constraining Natural and Anthropogenic Disturbances in the Delivery of Coastal Ecosystem Services

#### **Craig McLean**

(September, 2021)  
Thesis in the field of Chemical Oceanography submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Understanding how Nutrient Stress Distinguishes Phytoplankton Groups

#### **Julien Thomas Middleton**

Thesis in the field of Chemical Oceanography submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Barium Isotope Cycling in the Marine Environment: Pathways of Fractionation and Implications for Paleoceanographic Applications

#### **Astrid Pacini**

(February, 2022)  
Thesis in the field of Physical Oceanography submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Structure, Variability, and Dynamics of the West Greenland Boundary Current System

#### **Mallory Cecile Ringham**

Thesis in the field of Chemical Oceanography submitted to the Department of Earth, Atmospheric, and Planetary Sciences: High Resolution, in-situ Studies of Seawater Carbonate Chemistry and Carbon Cycling in Coastal Systems Using Channelized Optical System II

**Taylor Rae Sehein**

(February, 2022)

Thesis in the field of Biological  
Oceanography submitted to the  
Department of Biology: Trojan Horses  
in the Marine Realm: Characterizing  
Protistan Parasite Ecology in Coastal  
Waters

**William Joseph Shinevar**

(September, 2021)

Thesis in the field of Geophysics  
submitted to the Department of Earth,  
Atmospheric, and Planetary Sciences:  
Inferring the Thermomechanical State of  
the Lithosphere Using Geophysical and  
Geochemical Observables

**Justin Joseph Suca**

(September, 2021)

Thesis in the field of Biological  
Oceanography submitted to the  
Department of Biology: The Roles of  
Hydrography and Prey Availability  
on the Abundance and Distribution of  
Forage Fishes on the Northeast US Shelf,  
with a Particular Emphasis on Northern  
Sand Lance

## MILITARY COMMISSIONS

### United States Air Force

*Second Lieutenant*

Thomas S. Edelman

Kevin James

William J. Kuhl

Jacob T. McGuire

Matthew E. Schofield

Carson J. Smith

Delia S. Stephens

### United States Army

*Second Lieutenant*

Chloe A.O. Brown

Sophia Chan

Erik M. Thompson

### United States Navy

*Ensign*

Sean G. Crozier

Alassia N. Lang

Juliana R. Silldorff

Andrew M. Sorenson

Tyler C. Worthley

### United States Space Force

*Second Lieutenant*

Violet C. Felt

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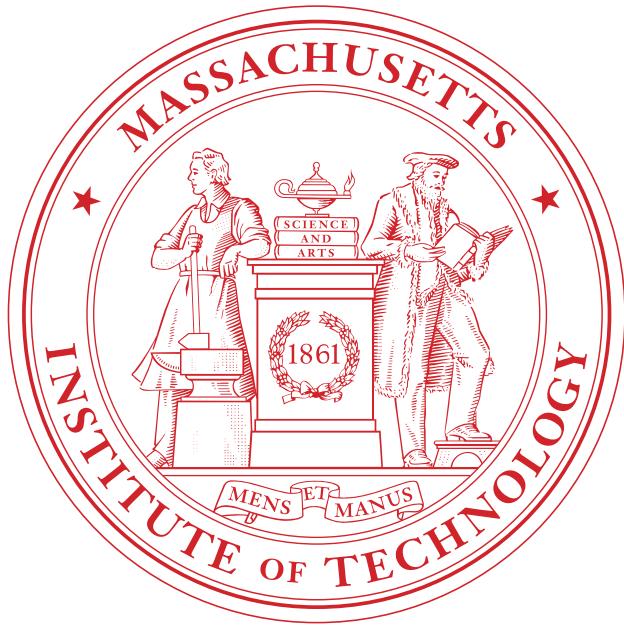
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