conference.program

11.1.16

9am

Title	Presenter Notes
Mezzanine Lounge How Accurate is a Drug Test? Depth First Search: Using Computers to Intelligently Solve Mazes Origami Folding Algorithms: Unveiling the Mystery Behind Folded Prisoner's Dilemma: Beating out your competition Counting Cards: How Google Analyzes a Billion People's Data	with Prof. Lou Braida Maria Messick 1 * Aritro Biswas 1 Structures Lisa Deng 1 Elizabeth Eastman 17 Hunter Gatewood 1
Twenty Chimneys Let's Make Things Spin! How Electric Motors Work Turing Machines: The Original Computers Callbacks in Computer Science: Stop Waiting Around! (no title) (no title)	with Emily Zhang Priya Kikani 1 Nicholas Matthews 1 * Sean Soni 1 Alexander Smith 7 Christopher Desnoyers 7
PDR 1 PageRank: How Important is Your Website? Optimizing an algorithm (Fibonacci) Operating Systems How the Internet Works How do we convey the glass without touching surface?	ith Professor Leslie Kolodziejski Michelle Lauer 9 * Sharon Kipruto 9 Rachel Lathe 9 Ruth Park 9 Taeyoung Yoon 9
Lobdell Balcony Dealing with a heap of money like a computer scientist How to Win at Poker: Counting Strategies How to get Obama's email How Hacking a Computer is Just Like Robbing a House	with Remi Mirkat John La 8 < Suri Bandler 7 < Luana Lopes Lara 9 * Andrew Montanez 7
Coffeehouse Lounge with Professor The Universe: How we got to Now Copy/Paste, Counterpoint, and Classical Music Thanks for the Memory ft. Dynamic Programming How does the Internet seem to always keep you online? Onion Routing: Maintaining Anonymity on the Internet	or Collin Stultz and Phoebe Tse Christian Cardozo Aviles 17 * Alexander Campillanos 17 Kelsey Chan 17 Dayanna Espinoza-Silva 17 * Henry Tareque 17
PDR 2 How to Bet on Anything The Physics of the MOSFET Introduction to K-Means Clustering RSA Encryption (Or how to pass secret notes in class!) Trains and Tumors: Understanding the Genes that Cause Cancer	with Professor Dirk Englund Jerry Wu 28 * Joshua Sloane 27 Aasavari Phanse 27 Abigail Russell 28 Evan Crane 27



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Coffeehouse Lounge	with Professor Collin S	tuitz
Strobe Photography: Capturing the Instantaneous	David Houle	18 *
Organizing Your Music Library		18
How to Get Through a Corn Maze		18
	Zygimantas Straznickas	18
Evolution of Encryption	Ryan Stuntz	18
	Phoebe Tse and Remi M	lirkat
Bitcoin Trading with Bayesian Regression	Anvita Pandit	18 *
Things we know we can't know	Trevor Henderson	8
How to Create Panoramic Images Using Computer Vision		18
WARNING! Race Conditions May Result in Unpredictable Programs	Nicole OBrien	10
How Your Favorite iPhone and Web Apps are Built	Kevin Shum	10
Matter and Space	Brindha Kannan	18
	Professor Leslie Kolodzi	ejski
Space-time and Baseball	/	0 *
How to be the World's Laziest Programmer	,	0
Sending Secret Messages Using Simple Ciphers	9	0
Putting Everything in Order – How Computers Sort Things		0
Did you mean Levenshtein Automata?	,	0
Letting Computers Diagnose Your Illness: Intro to Rule-Based Syste	ems Laura Ting 1	0
Mezzanine Louge	with Professor Lou Br	aida
Qubits: A New Way to Compute	Bennett Amodio	2 *
Qubits: A New Way to Compute Ray Tracing: Generating Realistic Images by Taking Photos in Reve	Bennett Amodio erse Nathan Gutierrez	2
Qubits: A New Way to Compute Ray Tracing: Generating Realistic Images by Taking Photos in Reve RAFT: Helping Your Mars Rovers Communicate	Bennett Amodio Perse Nathan Gutierrez Carlos Henriquez	2
Qubits: A New Way to Compute Ray Tracing: Generating Realistic Images by Taking Photos in Reve RAFT: Helping Your Mars Rovers Communicate Kolmogorov Complexity: Why most sequences can't be easily descr	Bennett Amodio Perse Nathan Gutierrez Carlos Henriquez Lisa Zahray	2 2 2
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Word Scoring: How Autocorrect Chooses the Right Match		23 *
How does it feel to be in charge of an airline? Solving airline	•	23
scheduling with flow networks	,	
BitHacks: Tweaking the Nuts & Bolts of a Computer Program	Isaac Garza	23
Hierarchical Modeling: How Computers Transform Bodies in A		23
Shining a Light on Solar Panels		23
Infinite Money: The Two Envelope Paradox		23
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PDR 1	with Professor Leslie Koloda	zieiski
The Tower of Hanoi Puzzle		11 *
Use the Force (of Light)	Kathy Camenzind	11
How DNA Sequencing Works		11
From Points to Curves: How Computers Draw Art		11
Playing Matchmaker		11
Traying Materinance	Dota Tzerig	1 1
Lobdell Balcony	with Phoebe Tse and Emily 2	7hang
How Feedback Helps You Cruise Across the Country	Wei Low	
Drawing with Bezier Curves: The Math Behind Pixar	Christina Sun	
How to Communicate Quickly and Efficiently: For top secret	Marisa Rozzi	
missions or just loading Facebook	IVIAIISA I IOZZI	1 1
How computers see images	Vickie Ye	11
Git Version Control		7
K-Means: From data to knowledge	_	28
10 Mountains. I form data to knowledge	David Iviayo	20
Mezzanine Lounge	with Professor Lou E	Braida
The St. Petersburg Paradox	Yanqi Chen	3 *
LZW Compression: How to Say More with Less	Xuan Bui	3
How to Make a Pixar Movie	Evan Denmark	
Onion Routing: How to Cleverly Communicate Covertly	Michael Feffer	
Classification Trees: WHAT ARE THOOOSE?	Daniel Lerner	3
Classification frees. WHAT AIL THOOGSE:	Daniei Lemei	O
PDR 4	with Jason Tong and Yola Kats	arovri
Subtle Bragging: Multi-party Computation and How it Works	Daniel Shaar	3 *
How to Simulate the Universe	Ethan Witt	3
Market Making: Easy Money?	Brian Saavedra	
Minimax: How Computers Beat Grandmasters at Chess	David Zheng	
Using Bayes' Rule to Model How Humans and Robots Think	<u> </u>	13
Osing Dayes Rule to Model Flow Humans and Robots Hillik	iviadeleli le Severai ice	10
Twenty Chimneys	with Professor Joe Steinr	mever
Virtual Memory: Stop Apps from Fighting	Julian Delerme	13 *
Cyberspying without code	Corey Cleveland	13
Simultaneous Localization and Mapping	Mubarik Mohamoud	13
Network Centralities: Who is important?	Alex Luh	13
Fiber Optics: Connecting the World with Light		
How to catch a Pokémon?		13
HOW to catch a FORCHIOH!	Sudhanshu Mishra	13

Coffeehouse Lounge Dealing with a Noisy World: Fourier Transforms and Filters Let it Crash: Handling the unpredictable in computer programs The Future of Wireless Charging Strategies for Two Player Games How to Share Nuclear Launch Codes (and Other Secrets) How to Steal Passwords: SQL Injection Attacks	with Professor Collin Stultz David Gomez 19 * Aneesh Agrawal 19 Oscar Guevara 19 Steven Hao 19 Linda Liu 19 Julia Wu 19
12pm Title	Presenter Notes
Coffeehouse Lounge Should Everyone Get Candy? – Proof by Induction How to Make Your Car Fast and Furious The Vector Space Model (Or What You Should Watch Next on Netfli Singular Value Decomposition: Capturing the essence of a picture Understanding Radix Sort Simpson's Paradox: Who gets more dates: Me or Brad Pitt?	with Professor Collin Stultz Christina Martinez-Acha 20 * Rita Ainane 20
PDR 1 with Rob Git-ting Smart With Your Files: How to Rage At Your Computer Just Little Less Size Matters Mathematical Multitasking: In Pursuit of Better Graphics Conditional Probability and the Monty Hall Problem Prisoner's Dilemma: Why you should never trust your partner	ert Ramirez and Emily Zhang A Gregory Young 8 < Kevin Ng 24 * Andrew Reilley 24 Jessica Fang 19 Mesert Kebed 8 >
Twenty Chimneys Saving Society with Semaphores (no title) The Monty Hall Problem (no title) Quantum Mechanics and You The Pigeonhole Principle & Beyond: Proofs About Socks, Oranges, &	ith Professor Joe Steinmeyer Anne Kelley 14 * Samantha Fierro 14 Cavin Mozarmi 14 Nischal Nadhamuni 14 Narindra Peaks 14 K Hair Elysa Kohrs 14
PDR 4 with Yo How Do Bots Move So Fast? Cross Site Scripting Attack In Bitcoin We Trust How Video Game Al Works Handling Concurrent Conversations with CDMA	la Katsargyri and Jason Tong Michael Shum 4 * John Mikhail 4 Nchinda Nchinda 4 Raoul Khouri 14 George Liang 14
Mezzanine Lounge The Pirate Game: Distributing Treasure As Fast as a Speeding Bullet Divide and Conquer: Solving Hard Problems by Solving Easy Ones MAC Protocols: Communication Without Conflict Data Buffers, or How Your Youtube Videos Load	with Professor Lou Braida Stuart Finney 4 * Travis Herbanek 4 Alex Huang 4 Alex Latham 14 Yuge Ji 14 >

PDR 2 The FPGA: a million computers in one Keeping Track of a Computer's Kids	with Professor Tomas Pa Angus MacMullen Famien Koko	24 * 24
Count to infinity and beyond	Cheuk Lee	
How computers efficiently store different versions of your To-Do lis	=	
Error Correcting Codes: Conveying Info with Greater Accuracy	Kevin Yang	
Scaling: Solving large problems one step at a time	Sagnik Saha	24
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Editing DNA with CRISPR Scissors	Helen Abadiotakis	25 *
AlphaGod: How the Machine beat the Man	Kai Aichholz	25
Shortest-Path Finding	Benjamin Lin	
Detecting Fake Data: Benford's Law	Tomas Calderon	
Grocery Shopping: The Bin-Packing Problem	Kai Xiao	
How to win a billion bucks	Alfredo Yanez	28 >
PDR 4	with Yola Kats	
How Concepts Help Us Understand Data Storage	Kayode Ezike	25 *
Quantum Cryptography: The Unbreakable Cipher Making Multiplication Factor with the Karatauha Algorithm	Brandon Sanchez	
Making Multiplication Faster with the Karatsuba Algorithm Using Your Cache Wisely	Jennifer Tylock	
Why our planet is doomed: A look into Game Theory	Douglas Kogut Julian Ranz	
Magnetic Circuits	Tianye Chen	
PDR 2	with Tomas Pa	lacios
Bitcoin: Magical Digital Money	Natalie Coleman	
Compression: More information: less space	Joren Lauwers	
Binary Search Explained: As Easy as Finding Words in a	Gustavo Montalvo	
Dictionary AJAX: Stronger Than Long Load Times	Chris Womack	21
First-Order Circuit Filters	Juan De Jesus	
Coffeehouse Lounge	with Professor Kimberle	. Koile
Reverse Engineering Smoothies with Math	Phillip Cherner	5 *
How to Control Almost Anything	Douglas Chambers	5
Why Wheels Do Strange Things On Camera	Israel Donato-Ridgley	5
Identity Based Encryption: The Locked Boxes and Keys in Your Co	omputer Jakob Weisblat	8
Hash Functions: Speedy Searches for Quicker Computers	Harrison Okun	5
PDR 3 with Sara	ah Tortorici and Robert Ra	mirez
Efficiently Find That Thing You're Looking For	Katie Marlowe	5 *
How to get from Stanford to MIT as quickly as possible	Rachel Rotteveel	5
Reduced Size Without Reduced Detail: Reduced Repitition	Daniel Solomon	5
Particle Systems: Wow, that Water Looks Real!	Reece Tamashiro	5
Time Travel with Special Relativity	David Campeau	
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Twenty Chimneys How Brain Cells Communicate – Why we laugh, learn, and love How can we measure a car's speed using an on-board camera? How to Send Secret Information How to Share a Secret Image Filtering Made Easy	Lotta Blumberg	16 < 15 * 15 15
PDR 1 The New Password: Your Eyes Is Time Actually Money? What is Pipelining? Do Laundry Faster and Make Netflix Load More Quickly Computer Vision for Dummies	Nicole Lu Lorenzo Vigano Pravina Samaratunga	15 * 15 15 16
How to count Skittles quickly with MapReduce 2pm Title	Dang Pham Presenter	16 Notes
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Mezzanine Lounge (no title)	with Professor Dirk En Tyler Finkelstein	-
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Long Distance Radio Communications or How Do Our Satellites Phone Home?	Alex Sloboda	
Collect Data Lazily, Get Away With It	Descartes Holland	26
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Just Google It: How Search Works		12 *
The Math Behind Card Counting	Diego Cornejo	12
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How to be a Better Decision Maker		12
Understanding Circuits and Why Electrical Plugs Have Three Pron	gs Michelle Qiu	12
PDR 2	with Phoeb	e Tse
How to be an Efficient Doctor – The Viterbi Algorithm	Aofei Liu	28 <
Friendship Paradox – Why Your friends have more friends than you		12 *
Mergesort	Jonatan Yucra Rodriguez	12
Li Ion Battery Management Systems Threads and Locking, Find the Race Condition Win a Prize	Eric Ponce Kenny Gea	

	n Professor Kimberle	Koile
Drawing Lines for Fun, Profit, and Classification (aka the joys of linear separators	Lei Ding	7 *
Finding a moment in a videostack	Ali-Amir Aldan	6
Hacking Passwords 101	Nikita Kodali	8
The Halting Problem A.K.A. Will Grandma Ever Stop Talking?		7 >
How to Make Your Computer Play (and win!) the Game of 20 Questions	Spencer Bard	7 >
Gene Drives – A method for editing a species or driving it to extinction	Damien Martin	8 >
PDR 3	with Sarah To	
Winning Board Games without any Real Skill	Keith Galli	6 *
Mr. Steal Your Prom Date	Sravya Bhamidipati	6
How to be a Particularly Good Finder	Jackie Liu	6
How to make superbabies	Crystal Pan	6
How to prove things certainly exist, by only proving that they probably exist	Michael Wallace	6
PDR 1	with Jason	Tong
How to Share Secrets With Your Friends	Edward Park	16 <
Your computer perceiving the world. Why you and your computer both trip-up on the McGurk effect.	Alexander List	16 <
How Computers Remember Your Cat Videos	Leopoldo Calderas	16 *
Traveling for Cheap: How to Find the Cheapest Flight Paths Around the World!	Danielle Penney	16
Solving mazes with Depth First Search	Gregory Hui	16

Special thanks to:

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