## 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
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**11**am

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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
	ratio coalai	20
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
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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
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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) (no title)	with Professor Collin Stultz  David Gomez 19 *  Aneesh Agrawal 19  Oscar Guevara 19  Steven Hao 19  Linda Liu 19  Julia Wu 19
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Coffeebouge Louinge	
Coffeehouse Lounge Should Everyone Get Candy? – Proof by Induction How to Make Your Car Fast and Furious	with Professor Collin Stultz Christina Martinez-Acha 20 * Rita Ainane 20
The Vector Space Model (Or What You Should Watch Next on Netfl	lix) Rebekah Bell 20
Singular Value Decomposition: Capturing the essence of a picture Understanding Radix Sort	Osmany Corteguera 20 Chandani Doshi 20
Simpson's Paradox: Who gets more dates: Me or Brad Pitt?	Fernando Varela 20
PDR 1 with Rol	pert Ramirez and Emily Zhang
Git-ting Smart With Your Files: How to Rage At Your Computer Just Little Less	
Size Matters	Kevin Ng 24 *
Mathematical Multitasking: In Pursuit of Better Graphics	Andrew Reilley 24
Conditional Probability and the Monty Hall Problem Prisoner's Dilemma: Why you should never trust your partner	Jessica Fang 19 Mesert Kebed 8 >
Twenty Chimneys	with Professor Ioo Stoinmover
Twenty Chimneys Saving Society with Semaphores	vith Professor Joe Steinmeyer  Anne Kelley 14 *
(no title)	Samantha Fierro 14
The Monty Hall Problem (no title)	Cavin Mozarmi 14 Nischal Nadhamuni 14
Quantum Mechanics and You	Narindra Peaks 14
The Pigeonhole Principle & Beyond: Proofs About Socks, Oranges,	& Hair Elysa Kohrs 14
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How Do Bots Move So Fast?	Michael Shum 4 *
Cross Site Scripting Attack	John Mikhail 4
In Bitcoin We Trust How Video Game Al Works	Nchinda Nchinda 4 Raoul Khouri 14
Handling Concurrent Conversations with CDMA	George Liang 14
Mezzanine Lounge	with Professor Lou Braida
The Pirate Game: Distributing Treasure	Stuart Finney 4 *
As Fast as a Speeding Bullet	Travis Herbanek 4
Divide and Conquer: Solving Hard Problems by Solving Easy Ones	Alex Huang 4
How can multiple people share the same communication medium?  Data Buffers, or How Your Youtube Videos Load	Alex Latham 14 Yuge Ji 14 >
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PDR 2 with Professor Tomas Palacios The FPGA: a million computers in one Angus MacMullen 24 Keeping Track of a Computer's Kids Famien Koko 24 Count to infinity and beyond Cheuk Lee 24 How computers efficiently store different versions of your To-Do lists Bristy Sikder 24 Error Correcting Codes: Conveying Info with Greater Accuracy Kevin Yang 24 Scaling: Solving large problems one step at a time Sagnik Saha 24 Title Presenter Notes Mezzanine Lounge with Professor Dirk Englund Editing DNA with CRISPR Scissors Helen Abadiotakis 25 AlphaGod: How the Machine beat the Man Kai Aichholz 25 Shortest-Path Finding Benjamin Lin 27 Detecting Fake Data: Benford's Law Tomas Calderon 28 Grocery Shopping: The Bin-Packing Problem Kai Xiao 28 How to win a billion bucks Alfredo Yanez 28 > PDR 4 with Yola Katsargyri How Concepts Help Us Understand Data Storage Kayode Ezike 25 Quantum Cryptography: The Unbreakable Cipher Brandon Sanchez 25 Making Multiplication Faster with the Karatsuba Algorithm Jennifer Tylock 25 Using Your Cache Wisely Douglas Kogut 25 Why our planet is doomed: A look into Game Theory Julian Ranz 25 Magnetic Circuits Tianve Chen 25 PDR 2 with Tomas Palacios Bitcoin: Magical Digital Money Natalie Coleman 21 Compression: More information: less space Joren Lauwers 21 Binary Search Explained: As Easy as Finding Words in a Gustavo Montalvo 21 Dictionary AJAX: Stronger Than Long Load Times Chris Womack 21 First-Order Circuit Filters Juan De Jesus 21 Coffeehouse Lounge with Professor Kimberle Koile Reverse Engineering Smoothies with Math Phillip Cherner 5 How to Control Almost Anything Douglas Chambers Why Wheels Do Strange Things On Camera Israel Donato-Ridgley (no title) Jakob Weisblat Hash Functions: Speedy Searches for Quicker Computers Harrison Okun PDR 3 with Sarah Tortorici and Robert Ramirez Efficiently Find That Thing You're Looking For Katie Marlowe How to get from Stanford to MIT as quickly as possible Rachel Rotteveel 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 21 Adversarial Search: How Computers Play Games

Jeremy Wright 21

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
Mozzanina Launga	with Brofossor Dirk En	alund
Mezzanine Lounge (no title)	with Professor Dirk En Tyler Finkelstein	-
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Understanding Circuits and Why Electrical Plugs Have Three Pron	gs Michelle Qiu	12
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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	

Coffeehouse Lounge with Drawing Lines for Fun, Profit, and Classification (aka the joys of linear separators Finding a moment in a videostack Hacking Passwords 101 The Halting Problem A.K.A. Will Grandma Ever Stop Talking? How to Make Your Computer Play (and win!) the Game of 20 Questions (no title)	Ali-Amir Aldan Nikita Kodali Vincent Anioke Spencer Bard Damien Martin	7 * 6 8 7 > 7 >
PDR 3 Winning Board Games without any Real Skill Mr. Steal Your Prom Date How to be a Particularly Good Finder How to make superbabies How to prove things certainly exist, by only proving that they probably exist	with Sarah To Keith Galli Sravya Bhamidipati Jackie Liu Crystal Pan Michael Wallace	6 * 6
PDR 1 How to Share Secrets With Your Friends Your computer perceiving the world. Why you and your computer both trip-up on the McGurk effect. How Computers Remember Your Cat Videos Traveling for Cheap: How to Find the Cheapest Flight Paths Around the World! Solving mazes with Depth First Search	with Jason Edward Park Alexander List Leopoldo Calderas Danielle Penney Gregory Hui	16 < 16 < 16 * 16

## Special thanks to:

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## my.notes