## 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



Title Presenter Notes

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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PDR 2	with Professor Tomas Pal	lacios
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
Temedis. From 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
	1,000,101
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 Netf Singular Value Decomposition: Capturing the essence of a picture Understanding Radix Sort	Tiix) Rebekah Bell 20 Osmany Corteguera 20 Chandani Doshi 20
Simpson's Paradox: Who gets more dates: Me or Brad Pitt?	Fernando Varela 20
PDR 1 with Ro	hout Dominos and Englis Thomas
Git-ting Smart With Your Files: How to Rage At Your Computer Jus Little Less	bert Ramirez and Emily Zhang t A Gregory Young 8 <
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	Kevin Ng 24 * Andrew Reilley 24 Jessica Fang 19 Mesert Kebed 8 >
Saving Society with Semaphores	with Professor Joe Steinmeyer Anne Kelley 14 *
(no title) The Monty Hall Problem (no title)	Samantha Fierro 14 Cavin Mozarmi 14 Nischal Nadhamuni 14
Quantum Mechanics and You The Pigeonhole Principle & Beyond: Proofs About Socks, Oranges,	Narindra Peaks 14
PDR 4  How Do Bots Move So Fast?  Cross Site Scripting Attack In Bitcoin We Trust How Video Game AI Works Handling Concurrent Conversations with CDMA	ola 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 Count to infinity and beyond How computers efficiently store different versions of your To-Do lis Error Correcting Codes: Conveying Info with Greater Accuracy Scaling: Solving large problems one step at a time	Famien Koko Cheuk Lee	24 * 24 24 24
1pm Title	Presenter	Notes
	W. D. G Did E	
Mezzanine Lounge	with Professor Dirk Er	-
Editing DNA with CRISPR Scissors	Helen Abadiotakis	
AlphaGod: How the Machine beat the Man	Kai Aichholz	
Shortest-Path Finding Patenting Fake Data: Penford's Law	Benjamin Lin	
Detecting Fake Data: Benford's Law Grocery Shopping: The Bin-Packing Problem	Tomas Calderon Kai Xiao	
How to win a billion bucks	Alfredo Yanez	
TION to WIT a billion backs	Alliedo Tariez	20 /
PDR 4	with Yola Kats	sargyri
How Concerts Help Us Understand Data Storage	Kayode Ezike	25 *
Quantum Cryptography: The Unbreakable Cipher	Brandon Sanchez	
Making Multiplication Faster with the Karatsuba Algorithm	Jennifer Tylock	
Using Your Cache Wisely	Douglas Kogut	
Why our planet is doomed: A look into Game Theory	Julian Ranz	
Magnetic Circuits	Tianye Chen	25
PDR 2	with Tomas Pa	lacios
Bitcoin: Magical Digital Money		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	5
Why Wheels Do Strange Things On Camera	Israel Donato-Ridgley	5
Identity Based Encryption: The Locked Boxes and Keys in Your C	omputer Jakob Weisblat	8
Hash Functions: Speedy Searches for Quicker Computers	Harrison Okun	5
DDD 2	oh Tortorici and Dahart Da	mire-
PDR 3 with Sara Efficiently Find That Thing You're Looking For	ah Tortorici and Robert Ra Katie Marlowe	amirez 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	21
Adversarial Search: How Computers Play Games	-	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	with Professor Joe Stein Runpeng Liu Banti Gheneti Lotta Blumberg Brandon Carter Sara Stiklickas	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	with Jason Joanna Han Nicole Lu e Lorenzo Vigano	15 * 15
Quickly Computer Vision for Dummies How to count Skittles quickly with MapReduce	Pravina Samaratunga Dang Pham	16 16
<b>2</b> pm		
Title	Presenter	Notes
Mezzanine Lounge (no title) Understand and Fix Your Slow Wifi (no title) Rule-based systems: A sneak peek into Artificial Intelligence Skip Lists – Express Trains for Lists	with Professor Dirk En Tyler Finkelstein Reo Baird William Navarre Adarsh Jeewajee Botong Ma	26 * 26 28 27
Chip Liste Express Traine for Lists	Dotorig Ma	21 /
PDR 4 Long Distance Radio Communications or How Do Our Satellites Phone Home?	with Yola Kats Alex Sloboda	
Collect Data Lazily, Get Away With It Tell a Lie Often Enough Collisions in Storage: How Pigeonhole Principle Shows they are In Parkinson's Evil Twin	Descartes Holland Arman Rahman evitable Tim Zhong Michael Castano	26
Twenty Chimneys  Just Google It: How Search Works The Math Behind Card Counting Number of Paths on the NYC Grid How to be a Better Decision Maker Understanding Circuits and Why Electrical Plugs Have Three Pron	th Professor Leslie Kolod Ismael Gomez Diego Cornejo Amber Guo Willow Jarvis gs Michelle Qiu	<b>ziejski</b> 12 * 12 12 12 12
PDR 2	with Phoeb	e Tse
How to be an Efficient Doctor – The Viterbi Algorithm Friendship Paradox – Why Your friends have more friends than you How to organize your fat stacks of cash really quickly using Mergesort	Aofei Liu	
Li Ion Battery Management Systems Threads and Locking, Find the Race Condition Win a Prize	Eric Ponce Kenny Gea	

Coffeehouse Lounge Drawing Lines for Fun, Profit, and Classification (aka the joys of	Professor Kimberle Lei Ding	Koile 7 *
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 Gene Drives – A method for editing a species or driving it to extinction	Ali-Amir Aldan Nikita Kodali Vincent Anioke Spencer Bard Damien Martin	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 Super Babies 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	ortorici 6 * 6 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!	with Jason Edward Park Alexander List Leopoldo Calderas Danielle Penney	16 <
Solving mazes with Depth First Search	Gregory Hui	16

## Special thanks to:

Katherine Touafek (School to Careers Partners) Dave Medvitz (Pingree) Benadette Manning (Fenway) Michele Goe (O'Bryant) Bob Hall (Newman) Jason Tong (MIT)

## my.notes