conference.program

11.1.16

9am

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



Title Presenter Notes

| Coffeehouse Lounge | with Professor Collin Stultz |
|---|--|
| Strobe Photography: Capturing the Instantaneous | David Houle 18 * |
| Organizing Your Music Library | Ziad Baaklini 18 |
| How to Get Through a Corn Maze | Connie Siu 18 |
| How Computers Learn Words Without Being Taught | Zygimantas Straznickas 18 |
| Evolution of Encryption | Ryan Stuntz 18 |
| Lobdell Balcony with | n Phoebe Tse and Remi Mirkat |
| 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 | Jose Zuniga 18 |
| WARNING! Race Conditions May Result in Unpredictable Programs | |
| How Your Favorite iPhone and Web Apps are Built | Kevin Shum 10 |
| Matter and Space | Brindha Kannan 18 |
| Matter and Space | Difficitia Katifiati 10 |
| | n Professor Leslie Kolodziejski |
| Space-time and Baseball | Zachary Hulcher 10 * |
| (no title) | Geoffrey Gilmore 10 |
| Sending Secret Messages Using Simple Ciphers | Karleigh Moore 10 |
| Putting Everything in Order – How Computers Sort Things | Jade Philipoom 10 |
| (no title) | William Roddenberry 10 |
| Letting Computers Diagnose Your Illness: Intro to Rule-Based Syste | ems Laura Ting 10 |
| | |
| Mezzanine Louge | with Professor Lou Braida |
| | with Professor Lou Braida Bennett Amodio 2 * |
| Mezzanine Louge Qubits: A New Way to Compute Ray Tracing: Generating Realistic Images by Taking Photos in Reve | Bennett Amodio 2 * |
| Qubits: A New Way to Compute Ray Tracing: Generating Realistic Images by Taking Photos in Reve | Bennett Amodio 2 * erse Nathan Gutierrez 2 |
| Qubits: A New Way to Compute | Bennett Amodio 2 * erse Nathan Gutierrez 2 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 | Bennett Amodio 2 * erse Nathan Gutierrez 2 Carlos Henriquez 2 |
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| 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 (no title) Twenty Chimneys with Em Strobes – Making Objects Stand Still How your computer gets Google's IP Address How to Keep Track of Spare Parts Language from a Machine's Perspective How to Move Video Game Characters PDR 2 How to Win a Game Show Breaking Down Words with Friends Molecular self-assembly: how to easily design nanoparticles | Bennett Amodio 2 * erse Nathan Gutierrez 2 Carlos Henriquez 2 ribed Lisa Zahray 2 Annie Phan 2 iily Zhang and Robert Ramirez Elaine Lin 2 < Zachery Miranda 2 * Will Reyes 2 Justine Jang 22 John Stephens 22 vith Professor Tomas Palacios Arezu Esmaili 22 * Garron Charles 22 Anastasia Dosca 22 |
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Title Presenter Notes

| PDR 2 | with Professor Tomas Pa | alacios |
|---|--------------------------|----------|
| Word Scoring: How Autocorrect Chooses the Right Match | Jacqueline Liu | 23 * |
| How does it feel to be in charge of an airline? Solving airline | Suyash Fulay | 23 |
| scheduling with flow networks | | |
| BitHacks: Tweaking the Nuts & Bolts of a Computer Program | Isaac Garza | 23 |
| Hierarchical Modeling: How Computers Transform Bodies in Anima | tion Selina Leung | 23 |
| Shining a Light on Solar Panels | Elizabeth Schell | 23 |
| Infinite Money: The Two Envelope Paradox | Katie Sedlar | 23 |
| PDR 1 wit | h Professor Leslie Kolod | lzieiski |
| The Tower of Hanoi Puzzle | Nadia Lucas | |
| Use the Force (of Light) | Kathy Camenzind | 11 |
| How DNA Sequencing Works | Isabel Chien | 11 |
| From Points to Curves: How Computers Draw Art | Catherine Li | 11 |
| Playing Matchmaker | | |
| Flaying Materinaker | Dora Tzeng | 11 |
| | Phoebe Tse and Emily | |
| How Feedback Helps You Cruise Across the Country | Wei Low | 23 * |
| Drawing with Bezier Curves: The Math Behind Pixar | Christina Sun | 23 |
| How to Communicate Quickly and Efficiently: For top secret | Marisa Rozzi | 11 |
| missions or just loading Facebook | | |
| How computers see images | Vickie Ye | 11 |
| Git Version Control | Megan Gebhard | 7 |
| K-Means: From data to knowledge | David Mayo | 28 |
| Mezzanine Lounge | with Professor Lou | Braida |
| The St. Petersburg Paradox | Yanqi Chen | |
| LZW Compression: How to Say More with Less | Xuan Bui | |
| How to Make a Pixar Movie | Evan Denmark | |
| Onion Routing: How to Cleverly Communicate Covertly | Michael Feffer | |
| Classification Trees: WHAT ARE THOOOSE? | Daniel Lerner | |
| Glassification frees. Whith face free doct. | Daniel Lemei | 0 |
| | ason Tong and Yola Kats | |
| Subtle Bragging: Multi-party Computation and How it Works | Daniel Shaar | |
| How to Simulate the Universe | Ethan Witt | |
| Market Making: Easy Money? | Brian Saavedra | 3 |
| Minimax: How Computers Beat Grandmasters at Chess | David Zheng | 13 |
| Using Bayes' Rule to Model How Humans and Robots Think | Madeleine Severance | 13 |
| Twenty Chimneys | with Professor Joe Stein | mever |
| Simultaneous Localization and Mapping | Mubarik Mohamoud | 13 * |
| Cyberspying without code | Corey Cleveland | 13 |
| Virtual Memory: Stop Apps from Flghting | Julian Delerme | 13 |
| Network Centralities: Who is important? | Alex Luh | 13 |
| Fiber Optics: Connecting the World with Light | Alan Medina | 13 |
| How to catch a Pokémon? | Sudhanshu Mishra | |

| 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 |
|--|---|
| 12pm Title | Presenter Notes |
| Coffeehouse Lounge (no title) | with Professor Collin Stultz Christina Martinez-Acha 20 * |
| How to Make Your Car Fast and Furious The Vector Space Model (Or What You Should Watch Next on Netfl | Rita Ainane 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 Rot Git-ting Smart With Your Files: How to Rage At Your Computer Just Little Less | pert Ramirez and Emily Zhang 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 | vith 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 Al Works Handling Concurrent Conversations with CDMA | 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 How can multiple people share the same communication medium? 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 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 | ith Professor Joe Stein Runpeng Liu Banti Gheneti Lotta Blumberg Brandon Carter Sara Stiklickas | 16 < 15 * |
|--|--|------------------------|
| PDR 1 The New Password: Your Eyes Is Time Actually Money? What is Pipelining? Do Laundry Faster and Make Netflix Load More Quickly | with Jasor Joanna Han Nicole Lu Lorenzo Vigano | 15 * 15 |
| Computer Vision for Dummies How to count Skittles quickly with MapReduce | Pravina Samaratunga Dang Pham | |
| 2 pm Title | Presenter | Notes |
| Mezzanine Lounge | with Professor Dirk E | - |
| (no title) Understand and Fix Your Slow Wifi | Tyler Finkelstein Reo Baird | |
| (no title) | William Navarre | |
| Rule-based systems: A sneak peek into Artificial Intelligence Skip Lists – Express Trains for Lists | Adarsh Jeewajee Botong Ma | |
| PDR 4 | with Yola Kats | sargyri |
| Long Distance Radio Communications or How Do Our Satellites Phone Home? | Alex Sloboda | 26 * |
| Collect Data Lazily, Get Away With It | Descartes Holland | |
| Tell a Lie Often Enough Collisions in Storage: How Pigeonhole Principle Shows they are Inev Parkinson's Evil Twin | Arman Rahman ritable Tim Zhong Michael Castano | 26 |
| Twenty Chimneys with | Professor Leslie Kolod | ziejski |
| 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 | Diego Cornejo Amber Guo Willow Jarvis | 12 * 12 12 12 |
| Understanding Circuits and Why Electrical Plugs Have Three Prongs | Michelle Qiu | 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 | Aofei Liu Joy Yu onatan Yucra Rodriguez | |
| Mergesort | _ | 07 : |
| Li Ion Battery Management Systems | Eric Ponce | |

| | h 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 Question | s Spencer Bard | 7 > |
| (no title) | 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 | |
| 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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my.notes