

DEPARTMENT Computational Biology

COLLEGE Carnegie Mellon University

Cell type specific massively parallel reporter assay

STUDENT

Naomi Shin

ADVISOR

Alyssa Lawler
Andreas Pfenning

ROOM

Rangos 1

DEPARTMENT

Science and Humanities Scholars

DEPARTMENT

Unknown
Computational Biology

TIME

3-5 pm

EXPECTED GRAD YEAR

2020

TYPE

Poster Presentation

Convergent Evolution of Vocal Learning in Mammals

STUDENT

Siddharth Annaldasula

ADVISOR

Andreas Pfenning

ROOM

Rangos 2&3/Sigma Xi Group 2

DEPARTMENT

Computational Biology

DEPARTMENT

Computational Biology

TIME

10:40 am

EXPECTED GRAD YEAR

2019

TYPE

Poster Presentation

Epigenetic markers of the aging brain

STUDENT

Yixin Yuan

ADVISOR

Andreas Pfenning

ROOM

Kirr Commons-1st Floor, Window side

DEPARTMENT

Biological Sciences

DEPARTMENT

Computational Biology

TIME

10:00 am - 12:00 pm

EXPECTED GRAD YEAR

2019

TYPE

Poster Presentation

DEPARTMENT Computational Biology

COLLEGE School of Computer Science

An Application of Minhash to Aid the Discovery of Antibiotics

STUDENT

Tanay Vakharia

DEPARTMENT

Computer Science

EXPECTED GRAD YEAR

2019

ADVISOR
Hosein Mohimani

DEPARTMENT
Computational Biology

ROOM
Wiegand Gymnasium - SCS Independent Study

TIME
12-2:30 pm

TYPE
SCS Independent Study (Po..

Proteomic Changes in Drosophila Brain as a Result of Wolbachia Infection

STUDENT
Ian Griswold
Ekaterina Krakopolskaya
Bria Persaud
Ugne Ziausyte

DEPARTMENT
Computational Biology
Biological Sciences
Biological Sciences
Biological Sciences

EXPECTED GRAD YEAR
2020
2020
2020
2020

ADVISOR
Jonathan Minden

DEPARTMENT
Biological Sciences

ROOM
Rangos 1

TIME
3-5 pm

TYPE
Poster Presentation

DEPARTMENT Computer Science

COLLEGE School of Computer Science

53-471 Game Design Project

STUDENT
David Baratt
Michael Coker
Celine Delaunay
Kai Kuehner
Sophia Videva

DEPARTMENT
General CIT
Computer Science
Statistics
Computer Science
Art

EXPECTED GRAD YEAR
2021
2018
2019
2019
2020

ADVISOR
Thomas Corbett

DEPARTMENT
Entertainment Technology Pittsburgh

ROOM
Studio Theater

TIME
12-2:30 pm

TYPE
IDeATe Presentation

A modern programming language for smart contracts

STUDENT
Nicholas Roberts

DEPARTMENT
Computer Science

EXPECTED GRAD YEAR
2019

ADVISOR
Jan Hoffmann

DEPARTMENT
Computer Science

ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

An Anytime Multi-Heuristic A* Search Algorithm

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
William Xiao	Computer Science	2018
ADVISOR	DEPARTMENT	
Maxim Likhachev	Robotics Institute	

ROOM	TIME	TYPE
Danforth Conference Room	11:20-11:40 am	SCS Honors Thesis (Poster..

An Application of Minhash to Aid the Discovery of Antibiotics

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Tanay Vakharia	Computer Science	2019
ADVISOR	DEPARTMENT	
Hosein Mohimani	Computational Biology	

ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

An "Exergame" Intervention to Aid Inhibitory Control Development in Preschool Children

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Nicole Ang	Information Systems	2019
Kalpa Anjur	Computer Science	2021
Dominic Calkosz	Computer Science	2021
Bridget Tan	Electrical & Computer Engineering	2019
Nathan Williams	Philosophy	2020
ADVISOR	DEPARTMENT	
Cassandra Eng	Psychology	

ROOM	TIME	TYPE
Connan	3-5 pm	Visual Arts

Approximating Densest k-Subhypergraph

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Calvin Beideman	Computer Science	2018
ADVISOR	DEPARTMENT	
Ryan O'Donnell	Computer Science	

ROOM	TIME	TYPE
Danforth Conference Room	12:20-12:40 pm	SCS Honors Thesis (Poster..

Approximations to Generalized Facility Location problems.

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Can Bostanci	Computer Science	2018
ADVISOR	DEPARTMENT	
Anupam Gupta	Computer Science	

ROOM	TIME	TYPE
Danforth Conference Room	1:20-1:40 pm	SCS Honors Thesis (Poster..

Automatic Algorithmic Choice for Differential Privacy

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Jacob Imola	Computer Science	2018
ADVISOR	DEPARTMENT	
Jean Yang	Computer Science	

ROOM	TIME	TYPE
Danforth Conference Room	10:40-11:00 am	SCS Honors Thesis (Poster..

Automatic Resource Bound Analysis for Programs with Garbage Collection

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Yue Niu	Computer Science	2018
ADVISOR	DEPARTMENT	
Jan Hoffmann	Computer Science	

ROOM	TIME	TYPE
Kirr Commons-1st Floor, Window side	12-2:30 pm	Poster Presentation

Automatically Enforcing Information Flow Security with Dependency Injection

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Scott Krulcik	Computer Science	2018
ADVISOR	DEPARTMENT	
Jean Yang	Computer Science	

ROOM	TIME	TYPE
Danforth Conference Room	10:20-10:40 am	SCS Honors Thesis (Poster..

Automatically Scheduling Image Processing Algorithms on FPGAs

STUDENT

Teguh Hofstee

ADVISOR

Kayvon Fatahalian

ROOM

Dowd

DEPARTMENT

Electrical & Computer Engineering

DEPARTMENT

Computer Science

TIME

10:15 am

EXPECTED GRAD YEAR

2018

TYPE

Oral Presentation

AutoType: Inferring Information Flow Policies

STUDENT

Serena Wang

ADVISOR

Jean Yang

ROOM

Wiegand Gymnasium - SCS Independent Study

DEPARTMENT

Computer Science

DEPARTMENT

Computer Science

TIME

12-2:30 pm

EXPECTED GRAD YEAR

2018

TYPE

SCS Independent Study (Po..

Behavior Based Malware Classification through Machine Learning

STUDENT

Christopher Ganas

ADVISOR

Jose Morales

ROOM

Wiegand Gymnasium - SCS Independent Study

DEPARTMENT

Computer Science

DEPARTMENT

Software Engineering

TIME

12-2:30 pm

EXPECTED GRAD YEAR

2018

TYPE

SCS Independent Study (Po..

Bento Bot - A smart reading list manager for your web browser

STUDENT

Leo Huang

ADVISOR

Aniket Kittur

ROOM

Wiegand Gymnasium - SCS Independent Study

DEPARTMENT

Computer Science

DEPARTMENT

Human Computer Interaction

TIME

12-2:30 pm

EXPECTED GRAD YEAR

2019

TYPE

SCS Independent Study (Po..

Blockchians with Private Data Storage

STUDENT

George Lu

ADVISOR

Vipul Goyal

DEPARTMENT

Computer Science

DEPARTMENT

Computer Science and Arts

EXPECTED GRAD YEAR

2019

ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Buncher Award presentation

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Shuli Jiang	Computer Science	2019

ROOM	TIME	TYPE
Hoch Commons-2nd Floor, Rangos side	10:00 am - 12:00 pm	Poster Presentation

Case Studies for Web Application Verification

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Jeanne Luning Prak	Computer Science	2019

ADVISOR	DEPARTMENT
Jean Yang	Computer Science

ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Computaitonal generation of humorous sentences

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Wilson Zhao	Computer Science	2019

ADVISOR	DEPARTMENT
Igor Labutov	Machine Learning

ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Concurrent skip lists for dynamic forest connectivity

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Thomas Tseng	Computer Science	2018

ADVISOR	DEPARTMENT
Guy Blelloch	Computer Science

ROOM	TIME	TYPE
Danforth Conference Room	4-4:20 pm	SCS Honors Thesis (Poster..

Constructing a Playable Map for use in Simulating Redistricting Protocols

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Evan Desantola	Computer Science	2019

ADVISOR	DEPARTMENT	
Ariel Procaccia	Computer Science	
ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Controlling Emotional Speech with Sliding Features

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Mengze Li	Computer Science	2019
ADVISOR	DEPARTMENT	
Amirali Bagher Zadeh	Language Technologies Inst.	
Louis-Philippe Morency	Language Technologies Inst.	
ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Correlating Exercise with Stress Levels in CMU Undergraduates

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Kailai Han	Economics and Statistics	2020
John Lore	Electrical & Computer Engineering	2018
Zachary Roop	Science and Humanities Scholars	2019
Paige Thompson	Statistics	2018
Jordan Widjaja	Computer Science	2018
ADVISOR	DEPARTMENT	
Robin Mejia	Statistics	
ROOM	TIME	TYPE
Dowd	1:40-2:00 pm	Oral Presentation

Decision Tree and Fourier Complexity of Boolean Functions

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Yeongwoo Hwang	Computer Science	2018
ADVISOR	DEPARTMENT	
Anil Ada	Computer Science	
Ryan O'Donnell	Computer Science	
ROOM	TIME	TYPE
Danforth Conference Room	12:40-1:00 pm	SCS Honors Thesis (Poster..

Deriving Behavior Graphs from Untutored Data

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
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Richard Gu	Computer Science	2019
ADVISOR	DEPARTMENT	
Vincent Aleven	Human Computer Interaction	
Jonathan Sewall	Human Computer Interaction	
ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Developing better caching algorithms

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Amadou Ngom	Computer Science	2019
ADVISOR	DEPARTMENT	
Rashmi Korlakai Vinayak	Computer Science	
ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Dynamic Fair Division with Indivisible Goods

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
David Zeng	Computer Science	2019
ADVISOR	DEPARTMENT	
Ariel Procaccia	Computer Science	
ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Efficient Co-Scheduling of DNN Inference for Streaming Video Applications

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Lilia Tang	Computer Science	2020
Lin Kit Daniel Wong	Computer Science	2023
ADVISOR	DEPARTMENT	
Greg Ganger	Electrical & Computer Engineering	
ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Enabling Social Robots to Better Understand Their Environments

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Kevin Zhang	Electrical & Computer Engineering	2018
ADVISOR	DEPARTMENT	
Manuela Veloso	Computer Science	

ROOM	TIME	TYPE
Dowd	9:15 am	Oral Presentation

Fairytale Showdown

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Sam Huang	Statistics	2018
Sadie Johnson	Modern Languages	2020
Laura Miller	Computer Science	2018
Angelo Pagliuca	Electrical & Computer Engineering	2020
Uday Uppal	Computer Science	2018
ADVISOR	DEPARTMENT	
Thomas Corbett	Entertainment Technology Pittsburgh	

ROOM	TIME	TYPE
Studio Theater	12-2:30 pm	IDeATe Presentation

Fine-grained Metadata Management Using Page Overlays

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Everi Osofsky	Computer Science	2018
ADVISOR	DEPARTMENT	
Michael Kozuch	Electrical & Computer Engineering	
Todd Mowry	Computer Science	
Vivek Seshadri	Computer Science	

ROOM	TIME	TYPE
Danforth Conference Room	3-3:20 pm	SCS Honors Thesis (Poster..

Graphical Approach to Component Based Synthesis

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Kaige Liu	Computer Science	2020
ADVISOR	DEPARTMENT	
Ruben Carlos Goncalves Martins	Computer Science	

ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
HEX Jacob Bittner	Dietrich College Interdisciplinary	2018

Jan Orłowski	Computer Science	2020
Pradnesh Patil	Entertainment Technology Pittsburgh	2018
Annabelle Swain	Architecture	2018
Sofia Syjuco	Art	2019
ADVISOR	DEPARTMENT	
Thomas Corbett	Entertainment Technology Pittsburgh	
ROOM	TIME	TYPE
Studio Theater	12-2:30 pm	IDeATe Presentation

How Can We Build Usable Security Type Systems?

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Jacob Van Buren	Computer Science	2018
ADVISOR	DEPARTMENT	
Jean Yang	Computer Science	
ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

IDEATA game design

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Dean Dijour	Dietrich College Interdisciplinary	2020
Rongbing Mu	Computer Science and Arts	2018
Mera Tegene	Computer Science	2020
Victoria Yom	Entertainment Technology Pittsburgh	2019
ADVISOR	DEPARTMENT	
Thomas Corbett	Entertainment Technology Pittsburgh	
ROOM	TIME	TYPE
Studio Theater	12-2:30 pm	IDeATe Presentation

Immersing in the Sphere World

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Sydney Zheng	Computer Science	2021
ADVISOR	DEPARTMENT	
Golan Levin	Art	
ROOM	TIME	TYPE
Danforth Conference Room	10-10:20 am	SCS Honors Thesis (Poster..

Improving Introductory Robotics Education

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Nathalie Domingo	Electrical & Computer Engineering	2018
Valentina Kozina	Computer Science	2018
Hans Kumar	Mechanical Engineering	2019
Katie Lam	Mechanical Engineering	2019
Zachary Masciopinto	Mechanical Engineering	2019
Isabel Murdock	Electrical & Computer Engineering	2019
Diya Nuxoll	Mechanical Engineering	2019
Spencer Persaud	Mechanical Engineering	2019
Mehar Singh	Mechanical Engineering	2018
ADVISOR	DEPARTMENT	
Howie Choset	Robotics Institute	
ROOM	TIME	TYPE
Hoch Commons-2nd Floor, Rangos side	10:00 am - 12:00 pm	Poster Presentation

Improving Usability and Scalability of SyMonster

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Mayank Jain	Computer Science	2021
ADVISOR	DEPARTMENT	
Ruben Carlos Goncalves Martins	Computer Science	
ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

In-Sight: Tension-Based Haptic Feedback to Improve Mobility and Navigation for Blind People

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Alexander Baikovitz	Mechanical Engineering	2020
Jonathan Burns	Computer Science	2018
Jonathan Duffy	Electrical & Computer Engineering	2020
Zachary Sussman	Computer Science	2020
ADVISOR	DEPARTMENT	
Henny Admoni	Robotics	
ROOM	TIME	TYPE
Kirr Commons-1st Floor, Window side	12-2:30 pm	Poster Presentation

Incorporating Image Blurriness in Visual Stabilization Algorithms for Walking Robots

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Michael Huang	Computer Science	2021
ADVISOR	DEPARTMENT	
Guillaume Sartoretti	Robotics Institute	
ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Intelligent Pothole Detection and Road Condition Assessment - Percepsense

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Umang Bhatt	Electrical & Computer Engineering	2019
Shouvik Mani	Statistics	2018
Edgar Xi	Statistics	2019
ADVISOR	DEPARTMENT	
Jeremy Kolter	Computer Science	
ROOM	TIME	TYPE
Rangos 2&3/Sigma Xi Group 6	10:25 am	Poster Presentation

Kube-Cam: Observing Cluster Based Deployments

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Amanda Eng	Computer Science	2018
ADVISOR	DEPARTMENT	
Majd Sakr	Computer Science	
ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

LineAR Wordplay: An Augmented Reality 3D Drawing Game

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Marisa Lu	Design	2019
Jonathan Merrin	Computer Science	2018
Everi Osofsky	Computer Science	2018
Barbara Soques	English	2019
ADVISOR	DEPARTMENT	
Thomas Corbett	Entertainment Technology Pittsburgh	
ROOM	TIME	TYPE
Studio Theater	12-2:30 pm	IDeATe Presentation

Making Quadruped Robots Interactive using Computer Vision

STUDENT

Dhruv Khurana

ADVISOR

Aaron Johnson

ROOM

Kirr Commons-1st Floor, Window side

DEPARTMENT

Computer Science

DEPARTMENT

Mechanical Engineering

TIME

12-2:30 pm

EXPECTED GRAD YEAR

2019

TYPE

Poster Presentation

Market Aware Proactive Skill Posting in Referral Networks

STUDENT

Jong Woo Hong

ADVISOR

Jaime Carbonell

ROOM

Wiegand Gymnasium - SCS Independent Study

DEPARTMENT

Computer Science

DEPARTMENT

Language Technologies Inst.

TIME

12-2:30 pm

EXPECTED GRAD YEAR

2019

TYPE

SCS Independent Study (Po..

Masking Pain from Injections with Haptic Primitives

STUDENT

Ian Lo

ADVISOR

Arun Srivatsan Rangaprasad

ROOM

Wiegand Gymnasium - SCS Independent Study

DEPARTMENT

Computer Science

DEPARTMENT

Robotics

TIME

12-2:30 pm

EXPECTED GRAD YEAR

2019

TYPE

SCS Independent Study (Po..

Multimodal Approaches in Narrative Structures

STUDENT

Himakeerth Tammineedi

ADVISOR

William Cohen

ROOM

Wiegand Gymnasium - SCS Independent Study

DEPARTMENT

Computer Science

DEPARTMENT

Machine Learning

TIME

12-2:30 pm

EXPECTED GRAD YEAR

2019

TYPE

SCS Independent Study (Po..

Neural Generation of Structured and Coherent Music

STUDENT

Eric Zhu

ADVISOR

DEPARTMENT

Computer Science

DEPARTMENT

EXPECTED GRAD YEAR

2018

Taylor Berg-Kirkpatrick
Matthew Gormley

ROOM

Danforth Conference Room

Language Technologies Inst.
Machine Learning

TIME

3:20-3:40 pm

TYPE

SCS Honors Thesis (Poster..

Neural Variable Name Recovery from Obfuscated Javascript

STUDENT

Ziyu Xu

ADVISOR

Graham Neubig
Bogdan Vasilescu

DEPARTMENT

Computer Science

DEPARTMENT

Language Technologies Inst.
Institute for Software Research

EXPECTED GRAD YEAR

2019

ROOM

Wiegand Gymnasium - SCS Independent Study

TIME

12-2:30 pm

TYPE

SCS Independent Study (Po..

Optimal Cone Singularities for Conformal Flattening

STUDENT

Yousuf Soliman

ADVISOR

Keenan Crane

DEPARTMENT

Computer Science

DEPARTMENT

Computer Science

EXPECTED GRAD YEAR

2018

ROOM

Wright

TIME

3-3:20 pm

TYPE

Oral Presentation

Optimal Investment in Market

STUDENT

Lu Chen

Yue Yao

ADVISOR

William Hrusa

DEPARTMENT

Computer Science

Mathematical Sciences

DEPARTMENT

Mathematical Sciences

EXPECTED GRAD YEAR

2020

2020

ROOM

Rangos 2&3/Sigma Xi Group 7

TIME

10:55 am

TYPE

Poster Presentation

Optimizing Data Collection and Assessment of Inhibitory Control in Preschool Children

STUDENT

Nicole Ang

Dominic Calkosz

Yujun Lee

DEPARTMENT

Information Systems

Computer Science

Electrical & Computer Engineering

EXPECTED GRAD YEAR

2019

2021

2019

Bridget Tan	Electrical & Computer Engineering	2019
ADVISOR	DEPARTMENT	
Cassandra Eng	Psychology	
ROOM	TIME	TYPE
Connan	3-5 pm	Visual Arts

Paces

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Vayda Farino	Chemical Engineering	2020
Rachel Jones	Business Administration	2021
Zeleena Kearney	Electrical & Computer Engineering	2018
Selina Lee	Art	2020
Abigail Levine	Mathematical Sciences	2020
Kathryn Reilly	Business Administration	2020
Rachel Reolfi	Mechanical Engineering	2020
Allison Scibisz	Electrical & Computer Engineering	2019
Brittney Sidwell	Computer Science	2021
ADVISOR	DEPARTMENT	
Paolo Pedercini	Art	
Rebecca Taylor	Mechanical Engineering	
ROOM	TIME	TYPE
Wiegand Gymnasium	12-2:30 pm	Visual Arts

Performance Impact of Transparent Hupage Policies on zsim

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Axel Feldmann	Computer Science	2019
ADVISOR	DEPARTMENT	
Nathan Beckmann	Computer Science	
ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Pipe Crawling Activity Measurement System (PCAMS) Camera Assembly Design

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Chris Choi	Computer Science	2021
ADVISOR	DEPARTMENT	
William Whittaker	Robotics Institute	

ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Probabilistic Bayesian Inference with Linear Constraint Solving

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Chenhui Yuan	Computer Science	2019
ADVISOR	DEPARTMENT	
Jan Hoffmann	Computer Science	

ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Proprioceptive Robotic Gait Adaptation

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
William Paivine	Computer Science	2020
ADVISOR	DEPARTMENT	
Guillaume Sartoretti	Robotics Institute	

ROOM	TIME	TYPE
Hoch Commons-2nd Floor, Rangos side	12-2:30 pm	Poster Presentation

Prototype of a Musically Embedded Game

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Breeanna Ebert	Computer Science and Arts	2018
ADVISOR	DEPARTMENT	
Roger Dannenberg	Computer Science	

ROOM	TIME	TYPE
Studio Theater	12-2:30 pm	IDeATe Presentation

Random Generation of DAG workloads for scheduler testing

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Weihang Fan	Computer Science	2020
ADVISOR	DEPARTMENT	
Greg Ganger	Electrical & Computer Engineering	

ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Representations and Complexity of Abelian Automaton Groups

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Timothy Becker	Computer Science	2018
ADVISOR	DEPARTMENT	
Klaus Sutner	Computer Science	
ROOM	TIME	TYPE
Danforth Conference Room	3:40-4:00 pm	SCS Honors Thesis (Poster..

Retinal Prosthetics: Restoring Sight to the Blind Using Computer Vision

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Maitreyee Joshi	Computer Science	2018
ADVISOR	DEPARTMENT	
Martial Hebert	Robotics Institute	
ROOM	TIME	TYPE
Rangos 2&3/Sigma Xi Group 5	10:55 am	Poster Presentation

Retinal Prosthetics: Restoring Sight to the Blind Using Computer Vision

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Maitreyee Joshi	Computer Science	2018
ADVISOR	DEPARTMENT	
Martial Hebert	Robotics Institute	
ROOM	TIME	TYPE
Danforth Conference Room	2-2:20 pm	SCS Honors Thesis (Poster..

Reuse of database configuration knobs across versions

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Shuli Jiang	Computer Science	2019
ADVISOR	DEPARTMENT	
Andy Pavlo	Computer Science	
ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Sampling Complexity of Approximate Algorithms to Kernel Methods

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Manuel Fernandez	Computer Science	2019
ADVISOR	DEPARTMENT	
David Woodruff	Computer Science	

ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Scaling Sensors: Applying Image Similarity Measures to Crowd-Sourced Answers

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Matthew Savage	Computer Science	2019
ADVISOR	DEPARTMENT	
Christopher Harrison	Mathematical Sciences	

ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Scheduling Parallelizable Jobs with Multiple Speedup Functions

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Corwin de Boor	Computer Science	2018
ADVISOR	DEPARTMENT	
Benjamin Berg	Unknown	
Mor Harchol-Balter	Computer Science	

ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Securing Database-Backed Web Applications Through Lightweight, Automated Verification

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Jordan Brown	Computer Science	2018
ADVISOR	DEPARTMENT	
Jean Yang	Computer Science	

ROOM	TIME	TYPE
Danforth Conference Room	11-11:20 am	SCS Honors Thesis (Poster..

Selecting Languages for Cross-Lingual Dependency Parsing

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Yucen Li	Computer Science	2019
ADVISOR	DEPARTMENT	
Lori Levin	Language Technologies Inst.	
David Mortensen	Language Technologies Inst.	

ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Size-constrained Active Graphical Model Learning

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Hanqi Sun	Computer Science	2018
ADVISOR	DEPARTMENT	
Aarti Singh	Machine Learning	

ROOM	TIME	TYPE
Danforth Conference Room	4:20-4:40 pm	SCS Honors Thesis (Poster..

SousTech: Smart Food Sensing

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Zachary Wade	Computer Science	2019
ADVISOR	DEPARTMENT	
Mayank Goel	Institute for Software Research	

ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Speak Up: A Multi-Year Deployment of Games to Motivate Speech Therapy in India

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Amal Nanavati	Computer Science	2018
ADVISOR	DEPARTMENT	
Aaron Steinfeld	Robotics Institute	

ROOM	TIME	TYPE
Kirr Commons-1st Floor, Window side	10:00 am - 12:00 pm	Poster Presentation

StateLens: A Reverse Engineering Solution to Making Existing Dynamic Touchscreens Accessible

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Junhan Kong	Computer Science	2019
ADVISOR	DEPARTMENT	
Jeffrey Bigham	Human Computer Interaction	

ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Sum-of-Squares Refutation Threshold for Regular SORT_4 instances

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Sidhanth Mohanty	Computer Science	2018
ADVISOR	DEPARTMENT	
Ryan O'Donnell	Computer Science	
ROOM	TIME	TYPE
Danforth Conference Room	1:00-1:20 pm	SCS Honors Thesis (Poster..

SyMonster: program synthesis tool for Java APIs

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Anlun Xu	Computer Science	2020
ADVISOR	DEPARTMENT	
Ruben Carlos Goncalves Martins	Computer Science	
ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

The Effects of Surround Suppression on Mouse Visual Acuity

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Ye Zhang	Computer Science	2020
ADVISOR	DEPARTMENT	
Sandra Kuhlman	Biological Sciences	
ROOM	TIME	TYPE
Wean Commons-1st Floor, Connan side	10:00 am - 12:00 pm	Poster Presentation

The Next 700 Failed Step-Index-Free Logical Relations

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Daniel Gratzer	Computer Science	2018
ADVISOR	DEPARTMENT	
Karl Crary	Computer Science	
ROOM	TIME	TYPE
Danforth Conference Room	4:40-5:00 pm	SCS Honors Thesis (Poster..

Towards an Autonomous Database Management System

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Tianyu Li	Computer Science	2018
ADVISOR	DEPARTMENT	
Andy Pavlo	Computer Science	

ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Traveling Salesman Problem under Stability Considerations

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Sunny Gakhar	Computer Science	2018
ADVISOR	DEPARTMENT	
Anupam Gupta	Computer Science	

ROOM	TIME	TYPE
Danforth Conference Room	1:40-2:00 pm	SCS Honors Thesis (Poster..

User Interface Infrastructure for Socially-Aware Conversational Assistant in Information Desk Scenario

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Zihan Yu	Computer Science	2018
ADVISOR	DEPARTMENT	
Yoichi Matsuyama	Language Technologies Inst.	

ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Using Binary Codes to Improve Ensemble Algorithms

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Eliot Robson	Computer Science	2019
ADVISOR	DEPARTMENT	
Rashmi Korlakai Vinayak	Computer Science	

ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Using Comparison Queries to Reduce Burden of Data Annotation Required to Train Reliable Models for Bedside Monitoring

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Jiaxian Sheng	Computer Science	2019
ADVISOR	DEPARTMENT	
Artur Dubrawski	Robotics Institute	

ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Using machine learning to speedup program synthesis of Java APIs

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Tianlei Pan	Computer Science	2020
ADVISOR	DEPARTMENT	
Ruben Carlos Goncalves Martins	Computer Science	
ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

VR and AR consumer experience UBDS and Reality Computing collaboration.

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Sophie Chen	Drama	2019
Symone Lessington	Student-Defined Major CMU	2018
Alejandro Murillo	Electrical & Computer Engineering	2019
Angelo Pagliuca	Electrical & Computer Engineering	2020
Rajitha Pulivarthy	Computer Science	2021
Vera Schulz	History	2019
Benjamin Scott	Art	2018
Aijin Wang	Statistics	2019
ADVISOR	DEPARTMENT	
Thomas Corbett	Entertainment Technology Pittsburgh	
John Folan	Architecture	
Joseph Wang	Unknown	
ROOM	TIME	TYPE
Studio Theater	12-2:30 pm	IDeATe Presentation

Zeus: Algorithmically Checking Equivalence of SML Programs

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Vijay Ramamurthy	Computer Science	2019
ADVISOR	DEPARTMENT	
Umut Acar	Computer Science	
ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

DEPARTMENT	Human Computer Interaction	COLLEGE	School of Computer Science
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Bento Bot - A smart reading list manager for your web browser

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Leo Huang	Computer Science	2019

ADVISOR	DEPARTMENT	
Aniket Kittur	Human Computer Interaction	
ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Deriving Behavior Graphs from Untutored Data

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Richard Gu	Computer Science	2019
ADVISOR	DEPARTMENT	
Vincent Aleven	Human Computer Interaction	
Jonathan Sewall	Human Computer Interaction	
ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Designing a sensor-based feedback and training system to support professional development for higher education instructors

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Xiao Huang	Information Systems	2019
Angela Wang	Psychology	2019
Ye Ji Yim	Psychology	2020
ADVISOR	DEPARTMENT	
David Gerritsen	Human Computer Interaction	
Amy Ogan	Human Computer Interaction	
ROOM	TIME	TYPE
Rangos 1	3-5 pm	Poster Presentation

MessageOnTap

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Karan Dhabalia	Electrical & Computer Engineering	2018
ADVISOR	DEPARTMENT	
Jason Hong	Human Computer Interaction	
ROOM	TIME	TYPE
Dowd	9:00 am	Oral Presentation

Rapid Prototyping of Computer Systems - Scoliosis Brace

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Sharath Kasthuri Rangan	Electrical & Computer Engineering	2018
Dishita Vashi	Electrical & Computer Engineering	2019

ADVISOR
Dan Siewiorek
Asim Smailagic

DEPARTMENT
Human Computer Interaction
Electrical & Computer Engineering

ROOM
Hoch Commons-2nd Floor, Rangos side

TIME
3-5 pm

TYPE
Poster Presentation

Rapid Prototyping of Computer Systems - Scoliosis Brace: Backend Database

STUDENT
Prakruthi Deepak Heragu
Shruti Honnungar

DEPARTMENT
Electrical & Computer Engineering
Electrical & Computer Engineering

EXPECTED GRAD YEAR
2018
2018

ADVISOR
Dan Siewiorek
Asim Smailagic

DEPARTMENT
Human Computer Interaction
Electrical & Computer Engineering

ROOM
Hoch Commons-2nd Floor, Rangos side

TIME
3-5 pm

TYPE
Poster Presentation

Rapid Prototyping of Computer Systems - Scoliosis Brace: Sensors and Mobile Device

STUDENT
Cheng Chen
Hong Jin

DEPARTMENT
CIT Interdisciplinary
Mechanical Engineering

EXPECTED GRAD YEAR
2018
2018

ADVISOR
Dan Siewiorek
Asim Smailagic

DEPARTMENT
Human Computer Interaction
Electrical & Computer Engineering

ROOM
Hoch Commons-2nd Floor, Rangos side

TIME
3-5 pm

TYPE
Poster Presentation

Sentiment Analysis of Instagram images

STUDENT
Grace Guo
ADVISOR
Jason Hong

DEPARTMENT
Psychology
DEPARTMENT
Human Computer Interaction

EXPECTED GRAD YEAR
2018

ROOM
Wean Commons-1st Floor, Connan side

TIME
10:00 am - 12:00 pm

TYPE
Poster Presentation

StateLens: A Reverse Engineering Solution to Making Existing Dynamic Touchscreens Accessible

STUDENT
Junhan Kong

DEPARTMENT
Computer Science

EXPECTED GRAD YEAR
2019

ADVISOR

Jeffrey Bigham

ROOM

Wiegand Gymnasium - SCS Independent Study

DEPARTMENT

Human Computer Interaction

TIME

12-2:30 pm

TYPE

SCS Independent Study (Po..

Too Many Captains and Not Enough Wire

STUDENT

Avi Romanoff

Giada Sun

ADVISOR

Paolo Pedercini

ROOM

Connan

DEPARTMENT

Human Computer Interaction

Drama

DEPARTMENT

Art

TIME

12-2:30 pm

EXPECTED GRAD YEAR

2018

2019

TYPE

Visual Arts

Using Virtual Reality Experiences and Games to Augment Pre-Prosthesis Training

STUDENT

Henry Peck

ADVISOR

Brian French

Dan Siewiorek

Asim Smailagic

ROOM

Rangos 2&3/Sigma Xi Group 5

DEPARTMENT

Mechanical Engineering

DEPARTMENT

General CIT

Human Computer Interaction

Electrical & Computer Engineering

TIME

11:10 am

EXPECTED GRAD YEAR

2019

TYPE

Poster Presentation

DEPARTMENT Institute for Software Research

COLLEGE School of Computer Science

Network Analytic Approach To Modeling International Refugee Movement

STUDENT

Joseph Gibli

ADVISOR

Kathleen Carley

Mark Patterson

ROOM

Pake

DEPARTMENT

Statistics

DEPARTMENT

Institute for Software Research

Social & Decision Sciences

TIME

12:20-12:40 pm

EXPECTED GRAD YEAR

2018

TYPE

Oral Presentation

Neural Variable Name Recovery from Obfuscated Javascript

STUDENT

DEPARTMENT

EXPECTED GRAD YEAR

Ziyu Xu
ADVISOR
Graham Neubig
Bogdan Vasilescu
ROOM
Wiegand Gymnasium - SCS Independent Study

Computer Science
DEPARTMENT
Language Technologies Inst.
Institute for Software Research
TIME
12-2:30 pm

2019
TYPE
SCS Independent Study (Po..)

SousTech: Smart Food Sensing

Zachary Wade
STUDENT
ADVISOR
Mayank Goel
ROOM
Wiegand Gymnasium - SCS Independent Study

Computer Science
DEPARTMENT
Institute for Software Research
TIME
12-2:30 pm

2019
EXPECTED GRAD YEAR
TYPE
SCS Independent Study (Po..)

DEPARTMENT Language Technologies Inst.

COLLEGE School of Computer Science

Controlling Emotional Speech with Sliding Features

Mengze Li
STUDENT
ADVISOR
Amirali Bagher Zadeh
Louis-Philippe Morency
ROOM
Wiegand Gymnasium - SCS Independent Study

Computer Science
DEPARTMENT
Language Technologies Inst.
Language Technologies Inst.
TIME
12-2:30 pm

2019
EXPECTED GRAD YEAR
TYPE
SCS Independent Study (Po..)

Conversational Dataset Construction for Information Desk Scenario

Jiayi Su
STUDENT
ADVISOR
Yoichi Matsuyama
ROOM
Wiegand Gymnasium - SCS Independent Study

Information Systems
DEPARTMENT
Language Technologies Inst.
TIME
12-2:30 pm

2021
EXPECTED GRAD YEAR
TYPE
SCS Independent Study (Po..)

Designing a User Experience to Optimize Reliable Data Production on Crowdsourcing Platforms

Saloni Saxena
STUDENT
DEPARTMENT
Psychology
EXPECTED GRAD YEAR
2019

ADVISOR	DEPARTMENT	
Florian Pecune	Language Technologies Inst.	
ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Developing Anonymization Pipeline of Human-Human Conversational Dataset:

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Neeti Ganjur	Electrical & Computer Engineering	2020
ADVISOR	DEPARTMENT	
Yoichi Matsuyama	Language Technologies Inst.	
ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Frontend Development of DialCrowd's Sequence Labeling Feature

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Qiuyi Yin	Statistics	2021
ADVISOR	DEPARTMENT	
Maxine Eskenazi	Language Technologies Inst.	
ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Improving Natural Language Code Synthesis through learning from User Feedback

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
William Qian	Electrical & Computer Engineering	2020
ADVISOR	DEPARTMENT	
Graham Neubig	Language Technologies Inst.	
ROOM	TIME	TYPE
Rangos 1	3-5 pm	Poster Presentation

Market Aware Proactive Skill Posting in Referral Networks

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Jong Woo Hong	Computer Science	2019
ADVISOR	DEPARTMENT	
Jaime Carbonell	Language Technologies Inst.	

ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Measuring Social Success of Human-Agent Interactions

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Pui Qwen Maxine Kwan	Electrical & Computer Engineering	2020
ADVISOR	DEPARTMENT	
Florian Pecune	Language Technologies Inst.	

ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Neural Generation of Structured and Coherent Music

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Eric Zhu	Computer Science	2018
ADVISOR	DEPARTMENT	
Taylor Berg-Kirkpatrick Matthew Gormley	Language Technologies Inst. Machine Learning	

ROOM	TIME	TYPE
Danforth Conference Room	3:20-3:40 pm	SCS Honors Thesis (Poster..

Neural Variable Name Recovery from Obfuscated Javascript

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Ziyu Xu	Computer Science	2019
ADVISOR	DEPARTMENT	
Graham Neubig Bogdan Vasilescu	Language Technologies Inst. Institute for Software Research	

ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Selecting Languages for Cross-Lingual Dependency Parsing

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Yucen Li	Computer Science	2019
ADVISOR	DEPARTMENT	
Lori Levin David Mortensen	Language Technologies Inst. Language Technologies Inst.	

ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Understanding Emergent Social Roles and Role Effectiveness in Crowdfunding Site Kiva

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Akanksha Kartik	Mathematical Sciences	2018
ADVISOR	DEPARTMENT	
Diyi Yang	Language Technologies Inst.	

ROOM	TIME	TYPE
Rangos 2&3/Sigma Xi Group 7	10:40 am	Poster Presentation

Use interface for Socially-Aware Conversational Agent in Information Desk Scenario

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Shuangni Huang	Humanities and Arts	2019
ADVISOR	DEPARTMENT	
Yoichi Matsuyama	Language Technologies Inst.	

ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

User Interface Infrastructure for Socially-Aware Conversational Assistant in Information Desk Scenario

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Zihan Yu	Computer Science	2018
ADVISOR	DEPARTMENT	
Yoichi Matsuyama	Language Technologies Inst.	

ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

DEPARTMENT	Machine Learning	COLLEGE	School of Computer Science
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Computaitonal generation of humorous sentences

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Wilson Zhao	Computer Science	2019
ADVISOR	DEPARTMENT	
Igor Labutov	Machine Learning	

ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Multimodal Approaches in Narrative Structures

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Himakeerth Tammineedi	Computer Science	2019
ADVISOR	DEPARTMENT	
William Cohen	Machine Learning	

ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Neural Generation of Structured and Coherent Music

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Eric Zhu	Computer Science	2018
ADVISOR	DEPARTMENT	
Taylor Berg-Kirkpatrick Matthew Gormley	Language Technologies Inst. Machine Learning	

ROOM	TIME	TYPE
Danforth Conference Room	3:20-3:40 pm	SCS Honors Thesis (Poster..

Size-constrained Active Graphical Model Learning

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Hanqi Sun	Computer Science	2018
ADVISOR	DEPARTMENT	
Aarti Singh	Machine Learning	

ROOM	TIME	TYPE
Danforth Conference Room	4:20-4:40 pm	SCS Honors Thesis (Poster..

DEPARTMENT Robotics Institute

COLLEGE School of Computer Science

An Anytime Multi-Heuristic A* Search Algorithm

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
William Xiao	Computer Science	2018
ADVISOR	DEPARTMENT	
Maxim Likhachev	Robotics Institute	

ROOM	TIME	TYPE
Danforth Conference Room	11:20-11:40 am	SCS Honors Thesis (Poster..

Autonomous Driving Lab

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
David Neiman	Mathematical Sciences	2019
ADVISOR	DEPARTMENT	
Howie Choset	Robotics Institute	

ROOM	TIME	TYPE
Connan	3-5 pm	Visual Arts

COMPLIANT LOCOMOTION FOR A LIZARD-LIKE ROBOT

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Hai Duy Tran	Mechanical Engineering	2019
ADVISOR	DEPARTMENT	
Howie Choset	Robotics Institute	
Julian Whitman	Mechanical Engineering	

ROOM	TIME	TYPE
Kirr Commons-1st Floor, Window side	3-5 pm	Poster Presentation

Compliant Sidewinding in a Modular Snake Robot

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Nikolas Gupta	General CIT	2020
Logan Kojiro	Electrical & Computer Engineering	2020
ADVISOR	DEPARTMENT	
Guillaume Sartoretti	Robotics Institute	

ROOM	TIME	TYPE
Rangos 1	3-5 pm	Poster Presentation

Drones for Agricultural Monitoring

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Nikolas Gupta	General CIT	2020
Samraj Kalkat	General CIT	2021
Ripley Lyster	Electrical & Computer Engineering	2020
Joel Miller	Chemical Engineering	2020

ADVISOR	DEPARTMENT	
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Kelvin Gregory
Mel Siegel

Civil and Environmental Engineering
Robotics Institute

ROOM: Wean Commons-1st Floor, Connan side
TIME: 10:00 am - 12:00 pm
TYPE: Poster Presentation

Effective Footstep Planning for Humanoids Using Homotopy-Class Guidance

STUDENT: Vinitha Ranganeni
DEPARTMENT: Information Systems
EXPECTED GRAD YEAR: 2018

ADVISOR: Maxim Likhachev
DEPARTMENT: Robotics Institute

ROOM: Rangos 2&3/Sigma Xi Group 6
TIME: 10:10 am
TYPE: Poster Presentation

Enabling Ultra-High Frequency Ultrasound Vascular Segmentation and Tracking with a Customized Kalman Filter

STUDENT: Lingbo Jin
DEPARTMENT: Electrical & Computer Engineering
EXPECTED GRAD YEAR: 2018

Tejas Sudharshan Mathai
DEPARTMENT: Robotics
EXPECTED GRAD YEAR: 2020

ADVISOR: John Galeotti
DEPARTMENT: Robotics Institute

ROOM: Peter
TIME: 11:15 am
TYPE: Oral Presentation

Improving Introductory Robotics Education

STUDENT: Nathalie Domingo
DEPARTMENT: Electrical & Computer Engineering
EXPECTED GRAD YEAR: 2018

Valentina Kozina
DEPARTMENT: Computer Science
EXPECTED GRAD YEAR: 2018

Hans Kumar
DEPARTMENT: Mechanical Engineering
EXPECTED GRAD YEAR: 2019

Katie Lam
DEPARTMENT: Mechanical Engineering
EXPECTED GRAD YEAR: 2019

Zachary Masciopinto
DEPARTMENT: Mechanical Engineering
EXPECTED GRAD YEAR: 2019

Isabel Murdock
DEPARTMENT: Electrical & Computer Engineering
EXPECTED GRAD YEAR: 2019

Diya Nuxoll
DEPARTMENT: Mechanical Engineering
EXPECTED GRAD YEAR: 2019

Spencer Persaud
DEPARTMENT: Mechanical Engineering
EXPECTED GRAD YEAR: 2019

Mehar Singh
DEPARTMENT: Mechanical Engineering
EXPECTED GRAD YEAR: 2018

ADVISOR: Howie Choset
DEPARTMENT: Robotics Institute

ROOM	TIME	TYPE
Hoch Commons-2nd Floor, Rangos side	10:00 am - 12:00 pm	Poster Presentation

Improving multi-agent path planning

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Yunheng Zhang	Mechanical Engineering	2018
ADVISOR	DEPARTMENT	
Howie Choset	Robotics Institute	

ROOM	TIME	TYPE
Peter	9:15 am	Oral Presentation

Incorporating Image Blurriness in Visual Stabilization Algorithms for Walking Robots

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Michael Huang	Computer Science	2021
ADVISOR	DEPARTMENT	
Guillaume Sartoretti	Robotics Institute	

ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Modular Vision Sensor for Fast Moving Localization

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Eliana Cohen	General CIT	2020
ADVISOR	DEPARTMENT	
Howie Choset	Robotics Institute	

ROOM	TIME	TYPE
Hoch Commons-2nd Floor, Rangos side	12-2:30 pm	Poster Presentation

Motion System for Confined Space Application and Inspections

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Sara Misra	Electrical & Computer Engineering	2020
ADVISOR	DEPARTMENT	
Howie Choset	Robotics Institute	

ROOM	TIME	TYPE
Rangos 2&3/Sigma Xi Group 6	10:40 am	Poster Presentation

Pipe Crawling Activity Measurement System (PCAMS) Camera Assembly Design

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Chris Choi	Computer Science	2021
ADVISOR	DEPARTMENT	
William Whittaker	Robotics Institute	
ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

Proprioceptive Robotic Gait Adaptation

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
William Paivine	Computer Science	2020
ADVISOR	DEPARTMENT	
Guillaume Sartoretti	Robotics Institute	
ROOM	TIME	TYPE
Hoch Commons-2nd Floor, Rangos side	12-2:30 pm	Poster Presentation

Retinal Prosthetics: Restoring Sight to the Blind Using Computer Vision

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Maitreyee Joshi	Computer Science	2018
ADVISOR	DEPARTMENT	
Martial Hebert	Robotics Institute	
ROOM	TIME	TYPE
Danforth Conference Room	2-2:20 pm	SCS Honors Thesis (Poster..

Retinal Prosthetics: Restoring Sight to the Blind Using Computer Vision

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Maitreyee Joshi	Computer Science	2018
ADVISOR	DEPARTMENT	
Martial Hebert	Robotics Institute	
ROOM	TIME	TYPE
Rangos 2&3/Sigma Xi Group 5	10:55 am	Poster Presentation

Sensor Skins For Soft Robotic Systems Using EGaIn

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Jessica Yin	Mechanical Engineering	2020
ADVISOR	DEPARTMENT	
Tess Hellebrekers	Robotics Institute	
Carmel Majidi	Mechanical Engineering	

ROOM	TIME	TYPE
Rangos 1	3-5 pm	Poster Presentation

Speak Up: A Multi-Year Deployment of Games to Motivate Speech Therapy in India

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Amal Nanavati	Computer Science	2018
ADVISOR	DEPARTMENT	
Aaron Steinfeld	Robotics Institute	

ROOM	TIME	TYPE
Kirr Commons-1st Floor, Window side	10:00 am - 12:00 pm	Poster Presentation

Stable Stair Climbing for a Hexapod Robot using Onboard Sensing

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Sara Misra	Electrical & Computer Engineering	2020
ADVISOR	DEPARTMENT	
Howie Choset	Robotics Institute	

ROOM	TIME	TYPE
Rangos 2&3/Sigma Xi Group 6	10:40 am	Poster Presentation

Using Comparison Queries to Reduce Burden of Data Annotation Required to Train Reliable Models for Bedside Monitoring

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Jiaxian Sheng	Computer Science	2019
ADVISOR	DEPARTMENT	
Artur Dubrawski	Robotics Institute	

ROOM	TIME	TYPE
Wiegand Gymnasium - SCS Independent Study	12-2:30 pm	SCS Independent Study (Po..

DEPARTMENT	Software Engineering	COLLEGE	School of Computer Science
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Behavior Based Malware Classification through Machine Learning

STUDENT	DEPARTMENT	EXPECTED GRAD YEAR
Christopher Ganas	Computer Science	2018
ADVISOR	DEPARTMENT	
Jose Morales	Software Engineering	

ROOM

Wiegand Gymnasium - SCS Independent Study

TIME

12-2:30 pm

TYPE

SCS Independent Study (Po..

TOTAL DEPARTMENTS: 9