

UC San Diego

JACOBS SCHOOL OF ENGINEERING
Electrical and Computer Engineering

ece.ucsd.edu

2020 Summer
Internship Prep Program

FINAL PROJECT PRESENTATIONS

WELCOME!

Intern Prep Program Overview

Program is designed for students to build technical and professional development skills. By the end of the program, students are well equipped to pursue **internships** and **jobs** through gaining these skills: **resume** building, ability to **network**, be **resourceful**, well-**connected**, showcasing **technical skills** (python, machine learning, android app dev, computer aided design software), **project** experience, **community** building, exposure to **industry** and **academia** and more!

WEEK 1

- Intro to Python (Hardware + Software)
- Campus Resources
- Networking, ECE Advising

WEEK 2

- Intro to Machine Learning, 3D Modeling, Object Oriented Programming
- Building Resume, Cover Letter, LinkedIn
- Industry Talks

WEEK 3

- Machine Learning, EagleCAD, GitHub
- Faculty Research, Working in Industry
- Alumni Panel, Women in STEM

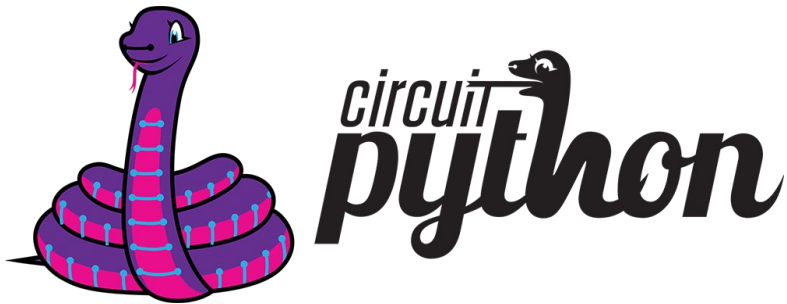
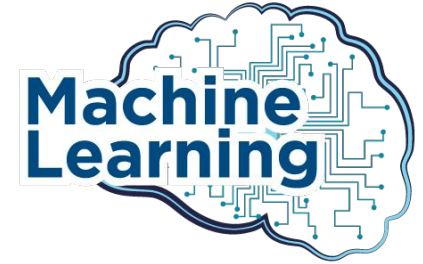
WEEK 4

- Android Studio
- Leadership, Enrichment Programs
- Technical Interview Prep, Job Requisition Exercise

WEEK 5

- Final Project
- Mock Interviews
- Closing Statements and Prizes

Technical Topics



Android
Studio



Professional Topics



- How to maintain strong academics
- How to prepare for work in industry
- Essential leadership skills
- How to work in teams
- How do demo projects and tools
- How to Network

- How to build a resume
- How to write a cover letter
- How to prepare your LinkedIn

- Internship Application Timeline
- Researching Job Requirements
- Preparing for Research
- Looking for Positions & Companies

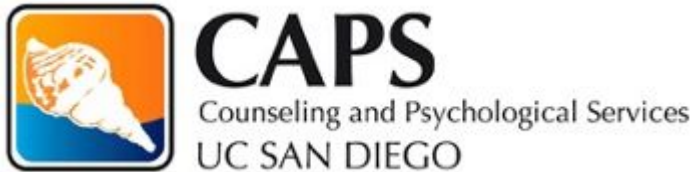
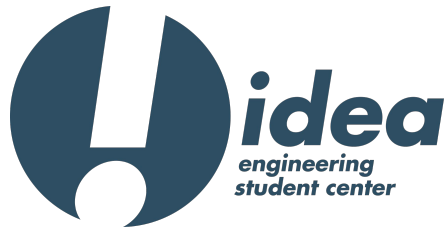
- Technical Interview Preparation

Campus Resources



Corporate Affiliates Program

Tap into the talent and technology of the Jacobs School of Engineering



Human Resources

Participating Transfer Students (UCSD + Imperial Valley CC): **33**

Alumni

- Mock Interview (10)
- Industry Panel (5)
- Industry Technical Talk (4)
- Job Requisition Workshop (2)
- How to Network (5)
- Resume Feedback (19)

Faculty

- Faculty Research Talks (4)
- Faculty Labs internships (16)

Tutor

- Graduate students (4)
- Undergraduate students (2)

Student Orgs

- IEEE
- HKN
- ECE USC
- PiB
- ACM
- SWE



NORTHROP GRUMMAN



THANK YOU

Matthew Alfaro
Destiny Alvarado
Nick Antipa
Nikolay Atanasov
Allan Ateek
Ammar Babikir
Carol Bao
Chase Bastian
Stefanie Battaglia
Zachary Bauer
Branson Beihl
Dinesh Bharadia
Yvonne Borrego
Thomas Brown
Derek Cantor
Thomas Chan
Magali Chavez
An Chen
Vivian Chiong
Jacques Chirazi
Pam Cosman
Sinai Cota
Nandan Das
Rocio de Lis
Lee Desser
Chen Du
William Duan
Jackie Duerr
William Dyer
Jocelyn Eillis

Lian Fengqin
Gregory Fields
Rick Gessner
Kris Gibson
Vikash Gilja
Shannon Goodison
Akshay
Gopalkrishnan
Josh Gopen
Christina Gosting
Prasad Gudem
Jonathan Guerrero
Alexandra
Hernandez
Katie Hsieh
Amy Hu
Roger Huang
Nathan Hui
Natan Jacobson
Tara Javidi
Tim Jiang
Sharon Johannes
Joseph Kadifa
Ishaan Kavoori
Colin Keef
Deborah Kegel
Hamna Khan
Ramsin Khoshabeh
Sam Knight

Christian Koguchi
Olivier Korchnoy
Kristin Kung
Duygu Kuzum
Chelsea Largoza
Isaias Larios
Sophia Lau
Hanh-Phuc Le
Adam Lee
Albert Lee
Bill Lin
Mark Liu
Xin Liu
Wenchin Liu
Yu Hwa Lo
Songyu Lu
Tongji Luo
Nikhil Harsha
Maganti
William Martino
Megan McCall
Patrick Mercier
Florian Meyer
Victor Miranda
Karcher Morris
Keith Muller
Farnia Nafarifard
Carol Nelepovitz

Tina Ng
Diep Nguyen
Kien Nguyen
Truong Nguyen
Karl Ni
Ravi Patel
Thang Phan
Myda Prado
Casey Price
Joshua Przepioski
Clyde Rapinan
Dennis Ren
Andrew Saad
Vas Segupta
Marie Sheneman
Yuhan Shi
Elianor Shohet
Nicholas Stein
Larry Stullich
Veeresh Taranalli
Alice Tor
Subarna Tripathi
Buu Truong
Ross Turner
Sarp User
Nuno Vasconcelos
Thyagarajan
Venkatanarayanan
Romain Vergniault

Yukti Vijay
Teri Vogel
Chau Vu
Edward Wang
Curtis Williams
Robert Wolff
True Xiong
Larry Zhang
Xinyu Zhang

Program Coordinators and Tutors



Prof. Truong Nguyen
ECE Professor



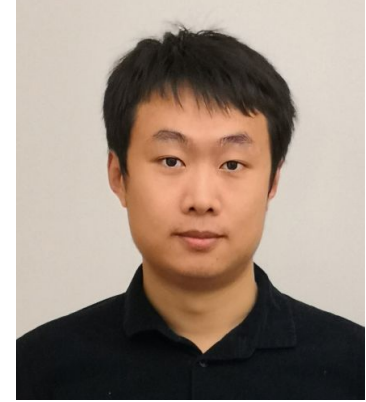
Nick Stein
ECE Outreach Coordinator



Karcher Morris
Ph.D. Grad. Student



Phuong Truong
Ph.D. Grad. Student



Chen Du
Ph.D. Grad. Student



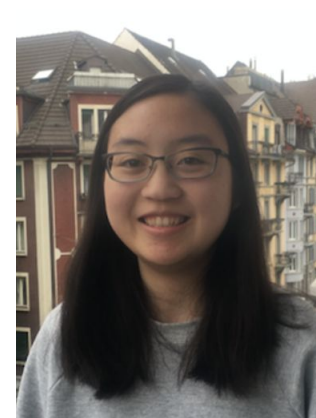
Victor Miranda
M.S. Grad. Student



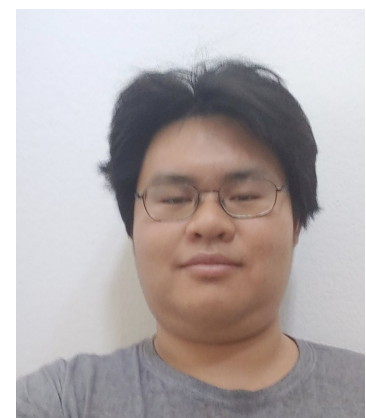
Ravi Patel
M.S. Grad. Student



Farnia Nafarifard
Undergrad. Student



Katie Hsieh
Undergrad. Student



Kien Nguyen
M.S. Grad. Student

End-of-Program Prizes!

Research Internships in Our ECE Labs

- Prof. Tina Ng
- Prof. Prasad Gudem
- Prof. Nick Antipa
- Prof. Florian Meyer
- Prof. Dinesh Bharadia
- Prof. Yu Hwa Lo
- Prof. Nuno Vasconcelos
- Prof. Hanh-Phuc Le
- Prof. Pam Cosman
- Prof. Xinyu Zhang
- Prof. Nikolay Atanasov
- Prof. Truong Nguyen
- Prof. Vikash Gilja
- Prof. Edward Wang



End-of-Program Prizes!

Computer Vision

Printed Electronics

Power Electronics

5G Networks

IoT

Medical Devices

Mobile Health

Video Processing

Photonic Systems

Robotics Navigation

Neural Imaging

Underwater Image Processing

Underwater Communications

Marine Robotics

Spectrum Sensing

Deep Learning

Software-defined Radio

AR/VR/360-degree video

Miniature Computational Microscopy

Wireless Communications

Opening Statements Have Ended

UC San Diego

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HOME

JOIN LIVE

ABOUT

SCHEDULE

COLLABORATORS

CONTACT

FINAL DAY PROGRAMMING SCHEDULE

Join us LIVE for Final Day Presentations from our internship prep program students! We encourage you to attend to learn more about the program and join us to support our students!

Date: September 4, 2020 (Friday)

Time: 10:00 AM - 2:00 PM

Location: Zoom!

TUNE IN LIVE TO PROGRAM SESSIONS

Time	Session	Join Link
10:00 AM - 10:10 AM	Opening Statements Professor Truong Nguyen	OPENING REMARKS ZOOM
10:10 AM - 11:30 AM	Student Presentations Track 1: Hardware / Electronics Track 2: Machine Learning Track 3: App Development	TRACK 1: HARDWARE TRACK 2: MACHINE LEARNING TRACK 3: APP DEVELOPMENT

tinyurl.com/ece-program-live

^^ To Join Track Presentations ^^

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1:00 PM - 1:30 PM

Awards, Prizes, and Closing Remarks

AWARDS AND PRIZE CATEGORIES

- MOST PROACTIVE
- BEST CAD MODELS
- BEST PRESENTATION
- BEST TECHNICAL PRESENTATION
- MOST CREATIVE
- BEST OVERALL
- RESEARCH INTERNSHIP PRIZES

Congratulations!



Track 1: Hardware & Electronics

Jerry Horton

Arcade Stacker Game

Richard Oliveira

LED Arcade Game

Joshua Smith

Auto Filling Dog Bowl

Yonghua Li

Braille Scanner

Christian Hendric

Toilet Flusher

Jaime Alvarez

Light Stereo

Le Nguyen

Hand Sanitizer Dispenser

Jiazheng Bian

Phone Locker

Track 2: Machine Learning

Katrina Garcia

Resistor Vending Machine

Nhan Pham

Number Classification

Anastasiia Makhniaieva

Plant Caretaker

Trung Tran

Robot Scout

Lisa Takai

Swear Jar App

Eeman Iqbal

Music App

Track 3: App Development

Jonathan Xiong

Home Security

Daisy Ruiz

Cleaning Robot

Khoa Nguyen

Tip Calculator 2.0

Saja Allallao

LED Controller

Matthew Reber & Gabriel Diaz

Frequency & Pitch Identifier

Lam Tran

Four Legged Friend

Sunny Chu

News App

Tiffany Joa

Life Alert

The background of the slide is a dark, blurred image. The word "NOVATO" is visible in a light gray, sans-serif font, repeated across the background. The text is centered and reads:

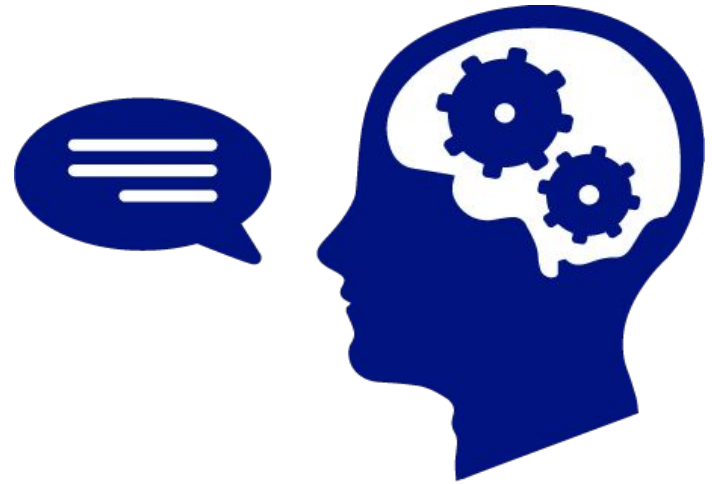
**MOST
PROACTIVE**

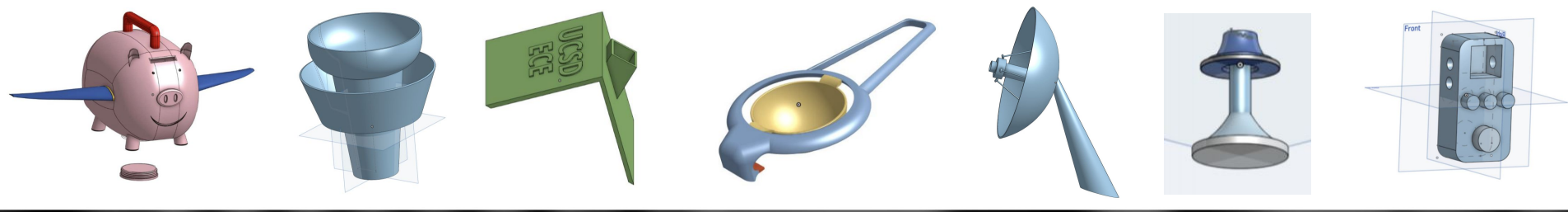
Awards: Most Proactive

Trung Tran

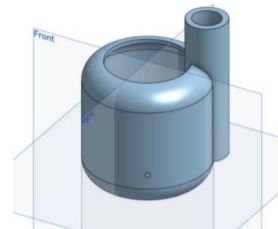
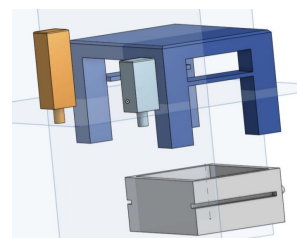
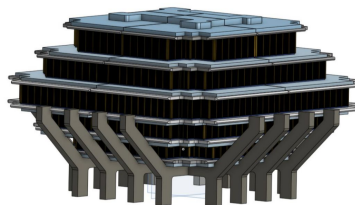
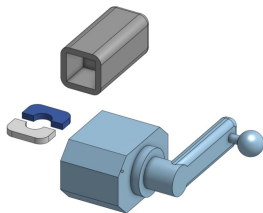
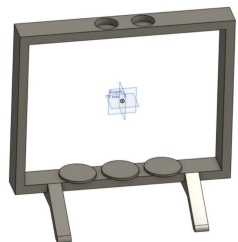
Jonathan Xiong

Nhan Pham



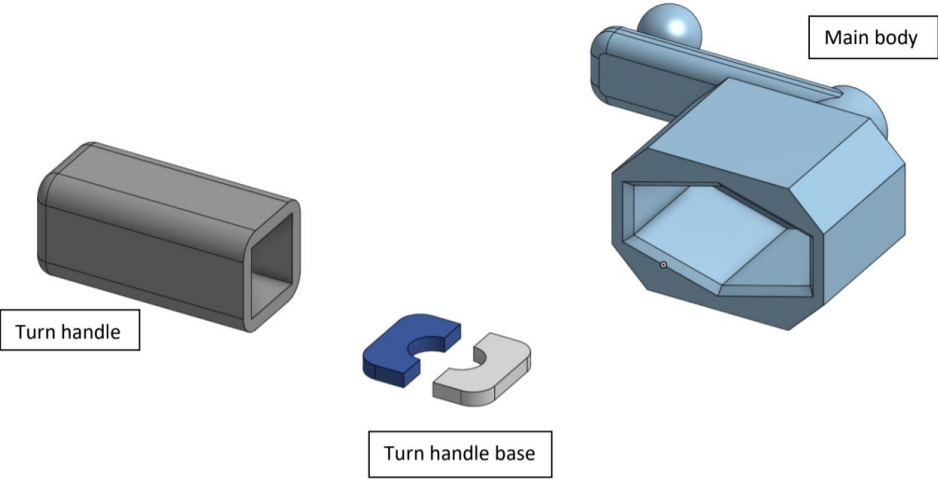
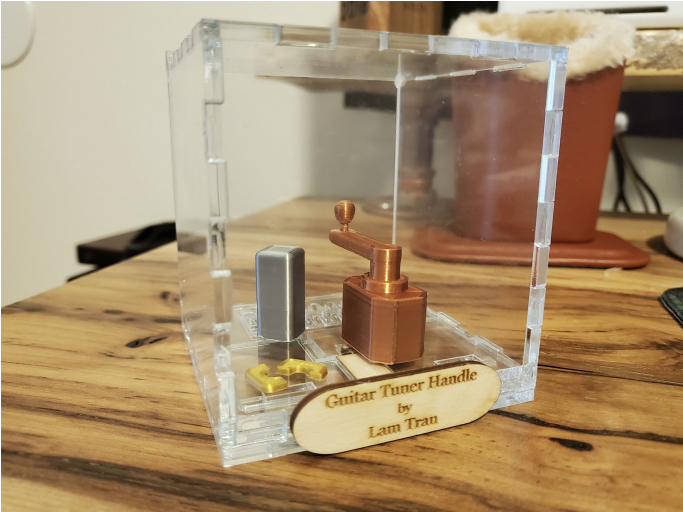


BEST COMPUTER AIDED DESIGN MODELS



Awards: Best CAD Design

Lam Tran (Most Functional)



Congratulations!

Awards: Best CAD Design

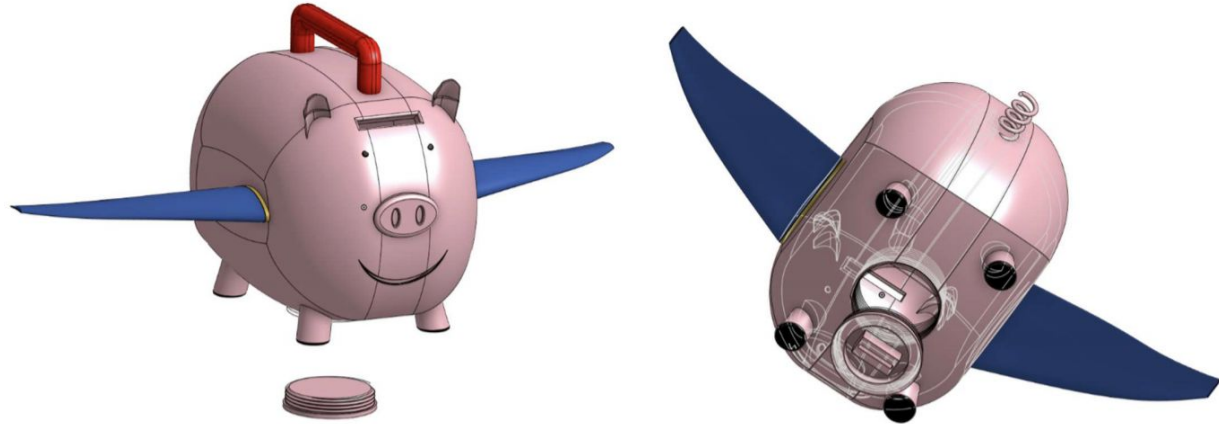
Matthew Reber (Best Aesthetics)



Congratulations!

Awards: Best CAD Design

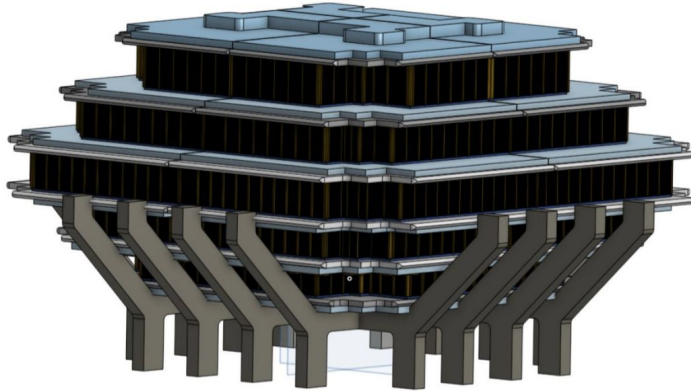
Jonathan Xiong (Best Overall)



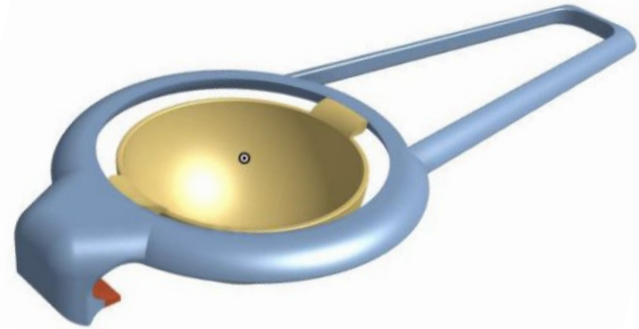
Congratulations!

Honorable Mentions

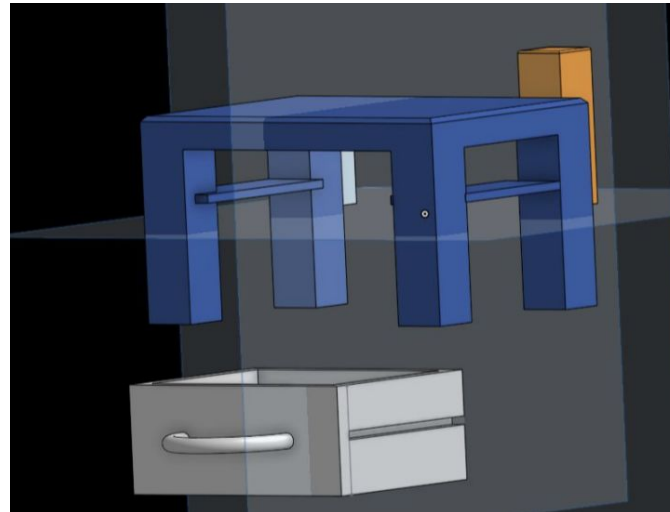
Jaime Alvarez - Geisel Library



Jiazheng Bian - Egg Separator



Jerry Horton - Small Drawer Monitor Lift



The background of the slide is a dark, blurred image. The word "NOVATO" is faintly visible in a light gray color, repeated across the background in a pattern. The text "BEST PRESENTATION" is centered in a bold, yellow font.

**BEST
PRESENTATION**

Awards: **Best Presentation**

Track 1: Richard Oliveira

Track 2: Eeman Iqbal

Track 3: Matthew Reber & Gabriel Diaz





**BEST
TECHNICAL
PRESENTATION**

Awards: **Best Technical Implementation**

Track 1: Lam Tran

Track 2: Nhan Pham

Track 3: Jonathan Xiong



The background of the image is a dark, blurred pattern. The word "NOVATO" is faintly visible in a light gray color, repeated across the background in a grid-like fashion. The text "MOST CREATIVE" is centered in the middle of the image in a bold, yellow, sans-serif font.

MOST CREATIVE

Awards: Most Creative

Track 1: Le Nguyen

Track 2: Lisa Takai

Track 3: Daisy Ruiz





BEST OVERALL

Awards: **Best Overall**

Track 1: Christian Hendric

Track 2: Anastasiia Makhniaieva

Track 3: Sunny Chu





**RESEARCH
INTERNSHIP
PRIZES**

Prizes: Research Internships

Announced Next Week!

Based on:

Participation, Attendance, Final Project, Faculty Preferences

Stay Tuned!





THANK YOU

Matthew Alfaro
Destiny Alvarado
Nick Antipa
Nikolay Atanasov
Allan Ateek
Ammar Babikir
Carol Bao
Chase Bastian
Stefanie Battaglia
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Derek Cantor
Thomas Chan
Magali Chavez
An Chen
Vivian Chiong
Jacques Chirazi
Pam Cosman
Sinai Cota
Nandan Das
Rocio de Lis
Lee Desser
Chen Du
William Duan
Jackie Duerr
William Dyer
Jocelyn Eillis

Lian Fengqin
Gregory Fields
Rick Gessner
Kris Gibson
Vikash Gilja
Shannon Goodison
Akshay
Gopalkrishnan
Josh Gopen
Christina Gosting
Prasad Gudem
Jonathan Guerrero
Alexandra
Hernandez
Katie Hsieh
Amy Hu
Roger Huang
Nathan Hui
Natan Jacobson
Tara Javidi
Tim Jiang
Sharon Johannes
Joseph Kadifa
Ishaan Kavoori
Colin Keef
Deborah Kegel
Hamna Khan
Ramsin Khoshabeh
Sam Knight

Christian Koguchi
Olivier Korchnoy
Kristin Kung
Duygu Kuzum
Chelsea Largoza
Isaias Larios
Sophia Lau
Hanh-Phuc Le
Adam Lee
Albert Lee
Bill Lin
Mark Liu
Xin Liu
Wenchin Liu
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Alice Tor
Subarna Tripathi
Buu Truong
Ross Turner
Sarp User
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Romain Vergniault

Yukti Vijay
Teri Vogel
Chau Vu
Edward Wang
Curtis Williams
Robert Wolff
True Xiong
Larry Zhang
Xinyu Zhang

TOWN HALL AFTER PROGRAM

Students:

Join Phuong to discuss **How to Improve Program** (30 min)

Town Hall Zoom on Logistics Page

Have a Nice Summer!



Stay Safe and Healthy!

See you in fall!

*Stay Safe
and
Healthy*



The image features a background of a modern building with a grid-like facade. A large, dark blue diagonal shape covers the left and bottom-left portions of the image, with a white diagonal line running through it. The text is positioned in the upper right and lower left areas.

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THANK YOU