UC San Diego
JACOBS SCHOOL OF ENGINEERING
Corporate Affiliates Program

Welcome
CAP Executive Board
February 8, 2024

CAP Director

Wil Dyer

Director, Corporate Affiliates Program

Welcome

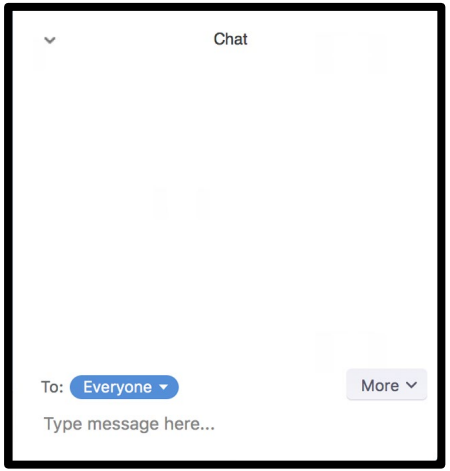
UC San Diego
JACOBS SCHOOL OF ENGINEERING
Corporate Affiliates Program

Virtual Attendee Protocol

➔ We will be recording this meeting

➔ You will be muted; Use chat box for questions & comments

➔ We will create a Zoom room for the discussion portion of the meeting, please turn on your cameras at that time.



UC San Diego
JACOBS SCHOOL OF ENGINEERING
Corporate Affiliates Program

Agenda

5:00-5:05pm	**Welcome** *Wil Dyer* *Director, Corporate Affiliates Program*
5:05-5:15pm	**Cooperative Education (Co-op) Presentation** *Madison Lee, 4th Year Ph.D student* *Electrical & Computer Engineering*
5:15-5:35pm	**Dean's Report** *Al Pisano* *Dean, Jacobs School of Engineering* *Special Adviser to the Chancellor for Campuswide Strategic Initiatives*
5:35-5:55pm	**Faculty + CAP Partner Presentation: Fare Evasion Project** *Nadir Weibel* *Professor, Computer Science & Engineering, Jacobs School of Engineering* *Shariqa Dowla* *Director of Software Engineering, Cubic*
5:55-6:20pm	**Executive Input: Cross Campus Initiatives**
6:20-6:30pm	**CAP Business** *Wil Dyer* *Director, Corporate Affiliates Program*
6:30pm	**Adjournment**

Welcome New CAP Partners

clinicomp

dexcom®

Welcome Guests

DOLBY

SAMSUNG

SHIELD AI

Welcome AMD Co-op Student

AMD Co-Op Experience: Madison Lee

Bio: 4th year ECE PhD Student, advised by Tara Javidi

Research: Black-Box Function Optimization

AMD Co-Op Experience: Madison Lee

Goals:

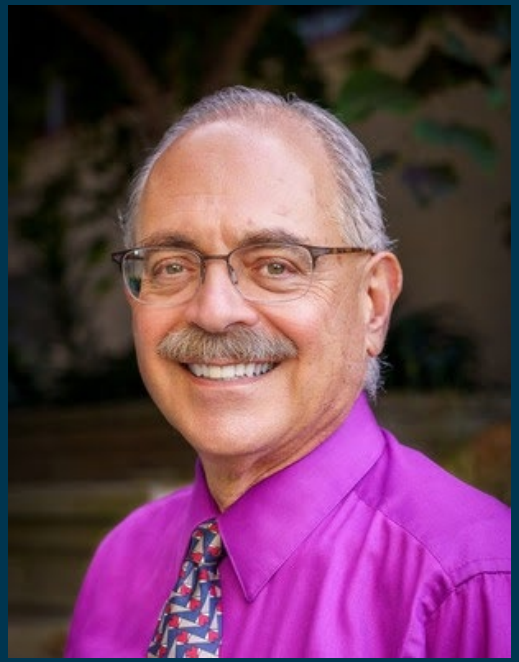
- Use black-box optimization techniques to collect hardware performance data.
- Use performance data to recommend an optimal hardware configuration to users with low probability of system failure

AMD Co-Op Experience: Madison Lee

Accomplishments:

- Developed statistical model of hardware failure in terms of system configuration and runtime duration.
- Designed and implemented a black-box optimization algorithm for efficient data collection.
- Tested our designs using both synthetic and real hardware data.
- Connected our algorithm to an automatic data collection routine.

Dean’s Report



Albert P. Pisano

Dean, Jacobs School of Engineering

Back Towards the Top 5

UC San Diego
JACOBS SCHOOL OF ENGINEERING
Corporate Affiliates Program

I’m sharply focused on my
next 5 years
as Dean of the Jacobs School, and my **new role**
as Special Adviser to the Chancellor for
Campuswide Strategic Initiatives

Phase three begins!

The 8 Point Dean's Plan

UC San Diego
JACOBS SCHOOL OF ENGINEERING
Corporate Affiliates Program

- Continue momentum for engineering diversity
- Build more multi-faceted campus partnerships
- Enhance undergrad education
- Drive graduate education quality
- Accelerate faculty career growth and impact
- Implement "Leviathan Project"
- Accelerate fundraising
- Build cachet

The Special Adviser to the Chancellor Campuswide Strategic Initiatives

UC San Diego
JACOBS SCHOOL OF ENGINEERING
Corporate Affiliates Program

Lifting the Campus with the Power of Engineering

- Transforming Healthcare
- Carbon-negative Biomanufacturing
- Fusion Engineering
- Mobile Edge-to-Cloud Networks

What we accomplished in 2023

UC San Diego
JACOBS SCHOOL OF ENGINEERING
Corporate Affiliates Program

PRISM Center Launched

UC San Diego
JACOBS SCHOOL OF ENGINEERING
Corporate Affiliates Program

The $50.5M funded Processing with Intelligent Storage & Memory (PRISM) center to focus on novel memory and storage devices and circuits; next generation architectures; systems and software; and grand challenge applications in drug discovery and data analysis

Contributors in DoD Microelectronics Commons Project

UC San Diego
JACOBS SCHOOL OF ENGINEERING
Corporate Affiliates Program

We are accelerating development and manufacturing of microelectronics in the U.S. focusing on 5G/6G technologies as part of the California Defense Ready Electronics and Microdevices Superhub (DREAMS) in Southern California.

Efforts towards Making California the Fusion State

UC San Diego
JACOBS SCHOOL OF ENGINEERING
Corporate Affiliates Program

We hosted the California Fusion Technology, Research and Engineering (FUTRE) workshop, bringing together industry, government and academic experts.

Additionally, our Center for Matter Under Extreme Conditions received $12.5M to maintain a center of excellence, and we are collaborating with San Diego Supercomputer Center and General Atomics to develop a Fusion Data Platform (FDP).

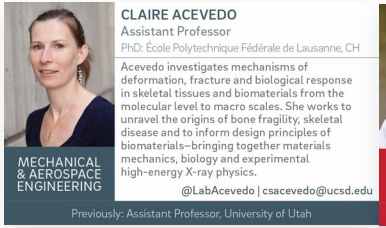
Celebrated 25 years as the Jacobs School of Engineering

UC San Diego
JACOBS SCHOOL OF ENGINEERING
Corporate Affiliates Program

Welcomed 15 New Faculty

160 faculty hires in 10 years

UC San Diego
JACOBS SCHOOL OF ENGINEERING
Corporate Affiliates Program



CLAIRE ACEVEDO
Assistant Professor
PhD: École Polytechnique Fédérale de Lausanne, CH

Acevedo investigates mechanisms of deformation, fracture and biological response in skeletal tissues and biomaterials from the molecular level to macro scales. She works to unravel the origins of bone fragility, skeletal disease and to inform design principles of biomaterials–bringing together materials mechanics, biology and experimental high-energy X-ray physics.

@LabAcevedo | csacevedo@ucsd.edu

MECHANICAL & AEROSPACE ENGINEERING

Previously: Assistant Professor, University of Utah

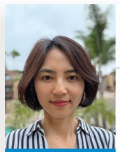
YUFEI DING
Associate Professor
PhD: North Carolina State University

Ding specializes in programming systems, influencing realms from machine learning to quantum computing. As a leader in intelligent programming, her work delves deeply into domain-specific language innovations, GPU-optimized library development, and cutting-edge compiler and architecture designs.

yufeiding@ucsd.edu

COMPUTER SCIENCE & ENGINEERING

Previously: Associate Professor, UC Santa Barbara



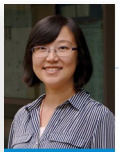
WANLU LI
Assistant Professor
PhD: Tsinghua University, China

Li drives eco-friendly innovation by designing catalysts and materials for sustainable energy applications using quantum mechanics, molecular dynamics and machine learning. As a foundation for this work, Li's research focuses on investigating the electronic structure, chemical bonding and environmental effects of nanoclusters and condensed phases.

wal019@ucsd.edu

NANOENGINEERING

Previously: Postdoctoral Researcher, UC Berkeley



YANRAN LI
Associate Professor
PhD: UCLA

Li, a synthetic biologist, blends chemistry and biology to study plants using engineering techniques. Li's group creates microbial cell factories to gain insights into plant metabolism and immunity. The goal is to cultivate sturdier plants that are better equipped to withstand a range of challenges, from pests to changing environmental conditions.

yal152@ucsd.edu

NANOENGINEERING

Previously: Associate Professor, UC Riverside

JUN-KUN WANG
Assistant Professor
PhD: Georgia Institute of Technology

Wang specializes in optimization and machine learning. His research aims to make algorithms faster; build robust theoretical foundations; and overcome issues such as model mis-specification or distribution shifts that arise during real-world deployment of machine learning methods. He holds a joint appointment with the Halıcıoğlu Data Science Institute.

jkw005@ucsd.edu

ELECTRICAL & COMPUTER ENGINEERING

Previously: Postdoctoral Researcher, Yale University

KIANA ARAN
Associate Professor
PhD: Rutgers University

Aran develops bioelectronics for multi-omics studies, targeted drug delivery, and studying the mechanisms of aging. She pioneers approaches to fuse CRISPR and electronics to improve the quality of genotyping and gene editing. She is a founder of two San Diego biotechnology companies and holds a joint appointment with UC San Diego School of Medicine.

Kiana_Aran@kgi.edu

BIOENGINEERING

Previously: Associate Professor, Keck Graduate Institute

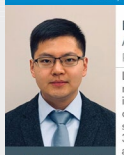
QIPENG LIU
Assistant Professor
PhD: Princeton University

Liu focuses on quantum computing, quantum information and cryptography in a quantum world. His research includes analyzing and understanding how safe existing cryptographic systems will be once quantum computing becomes widely available. He also works to build cryptography powered by quantum computing and information.

qipengliu@ucsd.edu

COMPUTER SCIENCE & ENGINEERING

Previously: Quantum Postdoc Fellow at Simons Inst. for the Theory of Computing



HAIWEN LUAN
Assistant Professor
PhD: Northwestern University

Luan merges intelligent electronics and microfluidics into living systems to create bio-integrated, multifunctional microsystems that can be used to address medical challenges. These systems mimic living tissues, possess complex 3D geometries, respond to mechanical input, and improve our ability to sense and regulate processes in biological systems.

@HaiwenLuan | haiwenluan@u.northwestern.edu

MECHANICAL & AEROSPACE ENGINEERING

Previously: Postdoctoral Scholar, Northwestern University

ALESSANDRO MARINONI
Assistant Professor
PhD: École Polytechnique Fédérale de Lausanne, CH

Marinoni primarily studies magnetically controlled nuclear fusion. His research focuses on understanding plasma turbulence and ways to control it. This involves developing innovative diagnostic systems for nuclear fusion devices, designing experiments within them, and using advanced modeling tools for data analysis.

amarinoni@ucsd.edu

MECHANICAL & AEROSPACE ENGINEERING

Previously: Research Scientist, Massachusetts Institute of Technology

RAJEEV SAHAY
Assistant Teaching Professor
PhD: Purdue University

Sahay's research lies at the intersection of machine learning and networking. This work focuses on two main areas: cellular networks, with the goal of improving communication efficiency in congested networks, and social learning networks, which are deployed in the classroom to foster student interaction and aid effective learning.

r2sahay@ucsd.edu

ELECTRICAL & COMPUTER ENGINEERING

Previously: Senior Machine Learning Software Engineer, Saab, Inc.

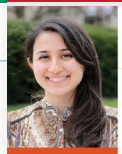
FANNY CHAPELIN
Assistant Professor
PhD: University of California San Diego

Chapelin develops non-invasive MRI methods to track immune cell migration to foci of inflammation in different conditions. Study areas include cell therapy distribution, fate and efficacy in preclinical studies; inflammation processes in tumor progression; stem cell transplant and graft vs host disease; and cell interactions in vivo. She has a joint appointment with the UC San Diego Department of Radiology.

fachapelin@ucsd.edu

BIOENGINEERING

Previously: Assistant Professor, University of Kentucky



PARINAZ NAGHIZADEH
Assistant Professor
PhD: University of Michigan

Naghizadeh develops mathematical models and analytical tools to predict and influence human and/or algorithmic behavior in complex networks. Applications include enhancing the security of cyber-physical systems and designing ethical AI algorithms for systems involving human interaction, such as in hiring, banking and school admissions.

pnaghizadeh@ucsd.edu

ELECTRICAL & COMPUTER ENGINEERING

Previously: Assistant Professor, The Ohio State University

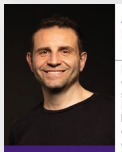
ABDOULAYE NDAO
Assistant Professor
PhD: Université de Franche-Comté, France

Ndao's research merges theory, simulations, nanofabrication and device integration to develop smaller, lighter, more efficient optical devices without compromising on functionality. Applications include sensors that can detect biological activity at single-cell resolution and components for building photonic quantum circuits.

a1ndao@ucsd.edu

ELECTRICAL & COMPUTER ENGINEERING

Previously: Assistant Professor, Boston University



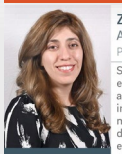
ALESSANDRO PALERMO
Professor
PhD: Politecnico di Milano, Italy

Palermo's world-leading expertise covers design-oriented resilient and sustainable engineering solutions for earthquake damage protection. He intends to continue researching on novel low-carbon concrete technologies and advanced engineered timber. Palermo's research will cover modern construction methods for timber buildings and concrete bridges including the use of digital construction techniques.

alpalermo@ucsd.edu

STRUCTURAL ENGINEERING

Previously: Professor, University of Canterbury, Christchurch, New Zealand



ZAHRA SADEGHIZADEH
Assistant Teaching Professor
PhD: Missouri University of Science and Technology

Sadeghizadeh aims to create and promote evidence-based teaching approaches that can advance engineering curriculum, particularly in aerospace engineering. Her pedagogical methods foster active and hands-on learning; deep understanding of complex concepts; and essential problem-solving skills, enhancing students' success in their academic and professional paths.

zsadeghizadeh@ucsd.edu

MECHANICAL & AEROSPACE ENGINEERING

Previously: Assistant Professor of Teaching, UC Davis

Pioneered Impactful Research Breakthroughs

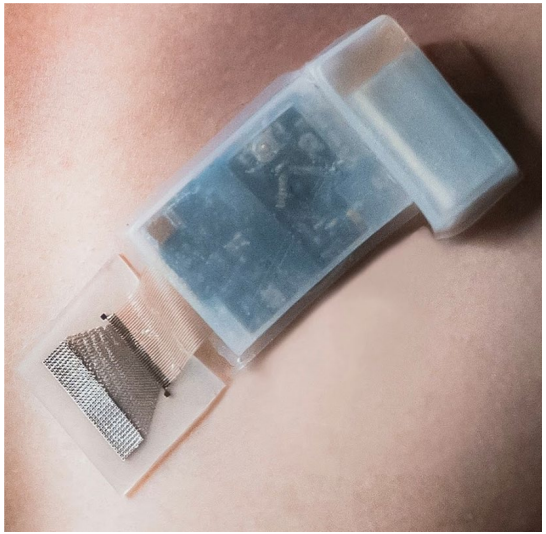
UC San Diego
JACOBS SCHOOL OF ENGINEERING
Corporate Affiliates Program

Created a handheld, non-invasive device that can detect biomarkers for Alzheimer's and Parkinson's Diseases

Found a way to give old smartphones a second life by repurposing the phone processor

Developed the first fully integrated wearable ultrasound system for deep-tissue monitoring on-the-go

…and many more!



Looking ahead: 2024 and beyond

UC San Diego
JACOBS SCHOOL OF ENGINEERING
Corporate Affiliates Program

$3M to support Sustainable Power & Energy Center

UC San Diego
JACOBS SCHOOL OF ENGINEERING
Corporate Affiliates Program

Through his company CorDx, entrepreneur and philanthropist Aiiso Yufeng Li (Jeff) and Dongdong Guo (Doreen) have pledged $3 million to support the Sustainable Power and Energy Center (SPEC). This research center serves as an interdisciplinary hub for advancing battery, solar cell and other sustainable energy technologies through a mix of fundamental research and applied-research projects in collaboration with industry partners.

Ping Liu, nanoengineering professor and director of the Sustainable Power and Energy Center (SPEC); Aiiso Yufeng Li (Jeff), Founder and Chief Strategy Officer (CSO) of CorDx; Albert P. Pisano, Dean and Special Adviser to the Chancellor; Liangfang Zhang, professor and chair of the nanoengineering department

Accelerating Interdisciplinary Research Collaborations for Early-Career Faculty

UC San Diego
JACOBS SCHOOL OF ENGINEERING
Corporate Affiliates Program

- Goal: help early-career faculty build interdisciplinary research collaborations to the point that they are competitive for multi-year research funding.
- Program provides funding that enables graduate students from two different labs to begin new research collaborations.
- At least one of the two UC San Diego Jacobs School of Engineering faculty must be an early-career professor.

Read more here

Microbiome leader elected to National Academy of Engineering

UC San Diego
JACOBS SCHOOL OF ENGINEERING
Corporate Affiliates Program

Rob Knight, Professor of Bioengineering, Computer Science & Engineering, and faculty director for the Center for Microbiome Innovation

Recognized for his pioneering leadership and “for understanding microbiomes and their application to healthcare and sustainability”

Leviathans

UC San Diego
JACOBS SCHOOL OF ENGINEERING
Corporate Affiliates Program

The Jacobs School Leviathan Initiative is a major project, spanning the interests of several faculty across all six departments which could command a grant in the size of $50M-$100M over a 5-year period.

Engineering an End to Cancer
Adam Engler, Ph.D.
Bioengineering

Grounded, Aligned, & Rational Intelligence
Sorin Lerner, Ph.D., Mohan Paturi, Ph.D.
Computer Science and Engineering

II7: Interactive Intelligence for 7G & Beyond
Farinaz Koushanfar, Ph.D.
Electrical & Computer Engineering

Engineering Human Resilience
James Friend, Ph.D.
Mechanical and Aerospace Engineering

Biomanufacturing of Intelligent Living Materials
Shaochen Chen, Ph.D.
Nanoengineering

Digital Twins for Comprehensive Infrastructure Asset Management & Optimization
John McCartney, Ph.D.
Structural Engineering

Four Tenants of Achieving Top 5 in 5

1. Maintaining graduate student excellence via Graduate Record Exams (GRE)
2. Drive faculty recognition via National Academy of Engineering (NAE) memberships
3. Enhance excellence and relevance of talent flow to our corporate partners
4. Landing leviathan research programs

Four Tenants of Achieving Top 5 in 5

UC San Diego
JACOBS SCHOOL OF ENGINEERING
Corporate Affiliates Program

1. Maintaining graduate student excellence via Graduate Record Exams (GRE)
2. Drive faculty recognition via National Academy of Engineering (NAE) memberships
3. **Enhance excellence and relevance of talent flow to our corporate partners**
4. Landing leviathan research programs

What cross-disciplinary, cross-campus initiatives or projects could we launch that would be relevant to your company?

Questions/Comments about Dean's Report?

Special Project Presentation

Shariqa Dowla
Director, Software Engineering
Cubic Transportation Systems

Nadir Weibel
Professor, Computer Science & Engineering
Associate Faculty Director, Design Lab

Fare Evasion in Public Transportation

UC San Diego
JACOBS SCHOOL OF ENGINEERING
Corporate Affiliates Program

CUBIC | Transportation Systems

CUBIC-UCSD Fare Evasion Project

CAP Winter Executive Board Meeting

February 8th 2024

» WHO WE ARE

We are the leading integrator of payment and information solutions and related services for intelligent travel applications in the transportation industry.

38M+
passengers use Cubic systems daily

1971 CTS launch date

$50M+
in revenues collected daily

20+
regional back-office systems in operation

130K+
devices installed

2900+
employees worldwide

$8B+
in contracts awarded

OUR GLOBAL IMPACT

- **2,900+** employees worldwide
- **50+ years** of transportation experience
- Long-term customer partnerships of **25+ years**
- Collect **over $20 billion** in transit revenue annually
- Process **24+ billion** transactions annually
- Project deployments **on six continents**
- HQ in San Diego, California with manufacturing in Tennessee

Problem Statement

- Fare evasion is generally defined as a passenger using public transit without paying the required fare or possessing the required fare media or valid proof of fare payment. It has significant implications for the financial sustainability of transit systems.

- Here is a video highlighting fare evasion in New York and the projected revenue loss in NY alone.

Youtube link here

Project Objective

- Objective: Reduce / deter fare evasion using a combination of behavioral science and technical toolsets.

- Methodology
  - Students/Researchers can study the various fare gates that Cubic provides
  - We have city labs setup at our office to simulate almost any
  - Fare evasion can also be observed and studied at live stations.

- Challenge:
  - Find with unique and easy to implement ideas to deter nonpayment .

See white paper from National Academies (2022) outlining the measurement and management of fare evasion as well as the Cubic white paper (2022)

How Do We Approach this Problem?

Through strategic partnerships between the Jacobs School of Engineering and other multidisciplinary entities at UC San Diego working at the intersection of engineering, behavioral, and social sciences

Nadir Weibel, PhD
Professor of Computer Science and Engineering
Associate Faculty Director, The Design Lab

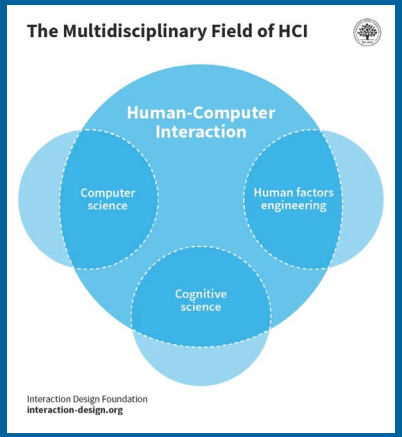
JACOBS SCHOOL OF ENGINEERING
UC SAN DIEGO

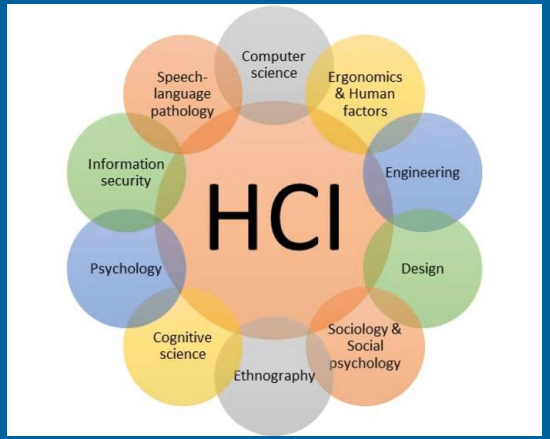
UCSDCSE
Computer Science and Engineering

THE DESIGN LAB
UC San Diego

UCSDCSE
Computer Science and Engineering

Human-Computer Interaction is a Key Discipline in Computer Science and Engineering





THE DESIGN LAB
UC San Diego

MISSION

To foster design-driven transformation by imagining alternative futures, empowering designers, and equipping people and communities with the knowledge, tools, and opportunities to tackle the most pressing societal challenges.

VISION

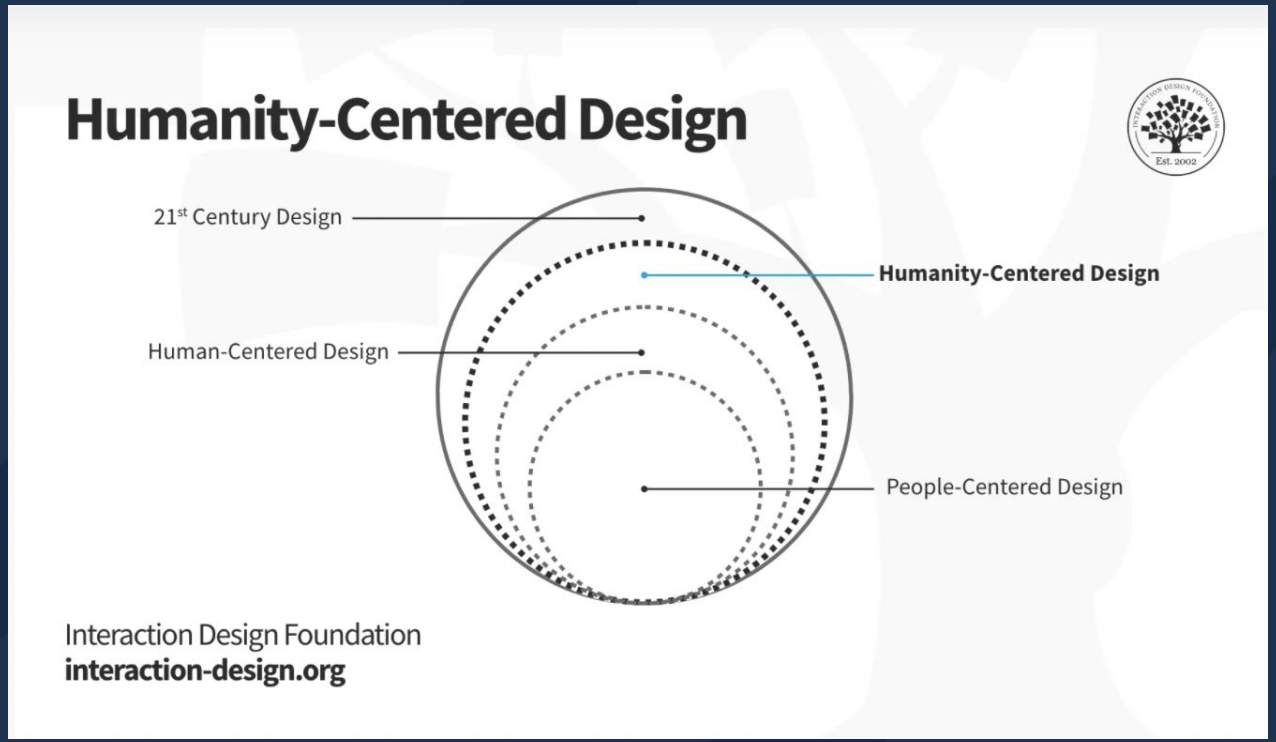
To transcend disciplinary boundaries and spearhead new frontiers in design research, education, and practice to create inclusive, just, and sustainable future for people and the planet.

WE INCUBATE, ACCELERATE, & SCALE DESIGN INNOVATIONS

HISTORY OF DESIGN LAB

- Started in 2015, Chancellor initiative, Founding Director: Don Norman
- Inter- and Transdisciplinary Research, Teaching, and Community Engagement
- Design for 21st Century Social Transformation
- UC San Diego's Uniqueness: unconventional, non-traditional, entrepreneurial, audacious

WHO WE ARE…HUMAN-CENTERED → HUMANITY-CENTERED DESIGN



PEOPLE

- 50+ affiliated Faculty
  - Students, Researchers, Staff
- 6 Different Schools/Divisions
  - Arts and Humanities
  - Engineering
  - Public Health and Human Longevity
  - Rady School of Management
  - School of Medicine
  - Social Sciences
- **Common Thread: Work on complex issues that will address systemic and structural problems**

COMMUNITY

- Community-Driven Design is a central tenet: *by, for, and WITH community*
- Design Lab STUDIOS
- Interdisciplinary Research
  - Futures Labs (Health, Indigenous, Plastics)
  - Just Transitions Institute
  - Bioregional Center
  - Housing Alliance
  - Design4SD
- Rapid Prototyping (ideas/innovations)

CONSULTING:
Thought Leaders

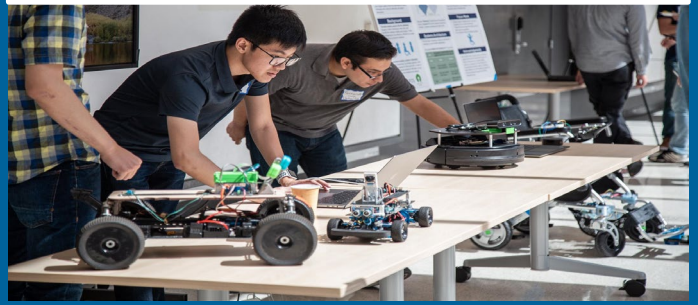
- Civic Institutions
- Industry Partners
- University Partners
- Non-profits

How does the Design Lab work?

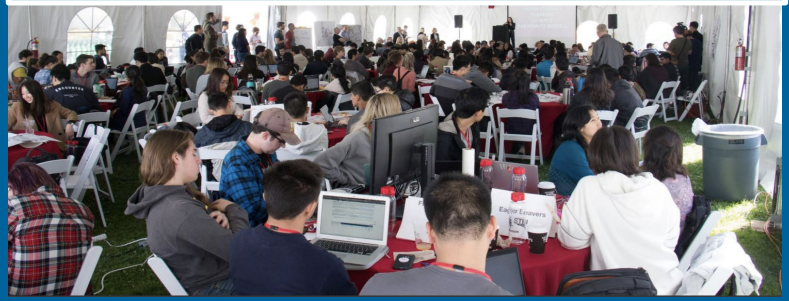
Industry partnerships
E.g: Sonos Lab engagement

Stakeholders Engagement
E.g. Creating access pathways with IBM to activate capacity for real world design research

Research Collaboration
E.g: across engineering and social science



Design Programming
E.g: the Pepper Canyon civic design-a-thon




UC San Diego
The Design Lab
UC San Diego
Office of Innovation and Commercialization
UC San Diego Extension
The City of
SAN DIEGO
Unified Port
of San Diego
SAN DIEGO
200
BNIM
MAKERS QUARTER
SDX
DDSTUDIO
SAN DIEGO
REGIONAL
EDC
DOWNTOWN
SAN DIEGO
PARTNERSHIP
INTERSECTION
SanDiego
MAGAZINE
THE DESIGN ACADEMY
mindflow
mirum
CAFÉ
LEAD SAN DIEGO
A catalyst for leadership
CONNECT
Show Imaging, Inc.
GRIZZLY
DIGITAL TELEPATHY
hp
SAP
BIOCOM
DESIGN for AMERICA
KONRAD × KING
SOSO
CANALECOMM
Gad
FAB LAB
SAN DIEGO
FreshForm.
CREATIVEMORNINGS
DA
Domus Academy
mld
LABORATORIO
PARA LA
CIUDAD
D2B
DESIGN TO
BUSINESS
Design
Council
Better by Design
SDXD
UX
Speakeasy
AIGA
the
professional
association
for
design
Ai
The Art Institute
of California - San Diego
THE MARITIME
ALLIANCE
theBellaVista
Social Club & Caffé
B
BRIDGURE
GoPro
Be a HERO
NISSAN
QUALCOMM
NEWSCHOOL
OF ARCHITECTURE & DESIGN
CUBIC
HIGH TECH HIGH
LA JOLLA
COUNTRY DAY
SCHOOL
BALBOA PARK
A Landscape of Art & Culture
GE Healthcare
Bottles&Wood
Reclaim Repurpose Reward
MONIKER
GROUP
VelocityGrowth
EvoNexus
HOPSCOTCH LABS
the new

How Can We Address this Problem?

The Technical Problem

- Current barriers are easy to avoid
- Physical-Digital systems
- Barriers need to be built within existing systems

Study current technical solutions and their flaws

The Human-Machine Interaction Problem

- People need effective ways to pay
- Payment systems should not be in the way of traveling
- Different people have different needs

Research issues for humans to interact with the real-world system

The Social Problem

- Everyone wants to save money when they can
- People might not want to be tracked
- Some people might not be able to pay

Understand the root motivation of different groups of people

JACOBS SCHOOL OF ENGINEERING
UC SAN DIEGO

UCSDCSE
Computer Science and Engineering

THE DESIGN LAB
UC San Diego

How do we Plan to Address this Problem?

The Technical Problem

- San Diego Cubic Lab
- Different systems
- Different cities

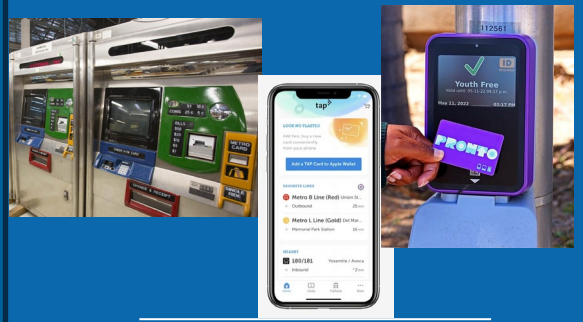
Study current technical solutions and their flaws

⇩

Propose real-world engineering adaptations

The Human-Machine Interaction Problem

- Cubic Payment Machines
- Public Transportation Apps
- Different ways of paying fares



Research issues for humans to interact with the real-world system

⇩

Propose novel interaction paradigms

The Social Problem

- Observing real behavior on-site (SD + LA)
- Analyzing Cubic logs
- Engaging with community and civic stakeholders

Understand the root motivation of different groups of people

⇩

Propose solutions that scale to different needs

Questions / Discussion

CUBIC Transportation Systems

JACOBS SCHOOL OF ENGINEERING
UC SAN DIEGO

UCSDCSE
Computer Science and Engineering

THE DESIGN LAB
UC San Diego

CAP Executive Board Input:

- What cross-disciplinary, cross-campus initiatives or projects could we launch that would be relevant to your company?
- Who are the company and campus players within this initiative that we should engage?
- What role would you play?

UC San Diego
JACOBS SCHOOL OF ENGINEERING
Corporate Affiliates Program

CAP Business

Wil Dyer

Director, Corporate Affiliates Program

UC San Diego
JACOBS SCHOOL OF ENGINEERING
Corporate Affiliates Program

CAP Updates

Jacobs School Corporate Affiliates Program

CAP Talent Programs - There is still time to recruit students!

Send us the description(s) and we'll take care of the rest!

- ➔ Team Internship Program (TIP)
- ➔ Cooperative Education (Co-op)
- ➔ Individual Internships
- ➔ Full-time/Part-time jobs
- ➔ Alumni for experienced roles

Contact Alice Grgas at agrgas@ucsd.edu

Learn more at jacobsschool.ucsd.edu/talent

Senior (Capstone) Design Projects

Why a capstone project?

- ➔ Team of 3-6 students
- ➔ Student skills & fresh ideas in action on your technology
- ➔ Mentor students
- ➔ IP assigned to sponsor

Jacobs School of Engineering	Format	Deadline to Submit Proposal
Bioengineering	1 year project	May 22, 2024
Electrical & Computer Engineering	Spring Quarter	March 25, 2024

Rady School of Management	Format	Deadline to Submit Proposal
Master of Science in Business Analytics (MSBA)	Spring Quarter	February 23, 2024

Contact Alice Grgas at agrgas@ucsd.edu

UC San Diego
JACOBS SCHOOL OF ENGINEERING

Professional Master Degrees

- Convergent Systems Engineering (CoSE)
  - AESE Technical Leadership program
  - Value Supply Chains (VSC)
  - Cyber-Physical-Social Systems (CPSS)
- Data Science and Engineering (DSE)
- Wireless Embedded Systems (WES)

Contact: Gary Henderson
Director, Engineering Professional Education
grhenderson@ucsd.edu

UC San Diego
JACOBS SCHOOL OF ENGINEERING

RESEARCH EXPO 2024

WEDNESDAY, APRIL 17

https://jacobsschool.ucsd.edu/research-expo

- ☑ CAP Executive Judges
- ☑ Ph.D Recruitment
- ☑ CAP Partner Sponsors

CAP Partner Invitations to Research Reviews

Center for Microbiome Innovation
cmi.ucsd.edu/cimm
March 12-14, 2024

Institute for Supply Chain
Excellence & Innovation
ISEI.ucsd.edu/supply-chain-forum
April 9-10, 2024

Contact: Wil Dyer, wdyer@ucsd.edu

Current Slate of Important Dates

February 18-23	Information Theory and Applications Workshop
February 26	Honors Networking Event hosted by Eta Kappa Nu (HKN) and Tau Beta Pi
March 12-14	Center for Microbiome Innovation International Microbiome Meeting
March 12-15	Kyoto Prize Symposium
March 19	Stanford S. and Beverly P. Penner Endowed Chair in Engineering or Applied Sciences - James Friend
March 27	Shu Chien-Gene Lay Department of Bioengineering Celebration
April 2	Pierre M. Galletti Professor of Bioengineering Innovation - Karen Christman
April 9-10	Institute for Supply Chain Excellence & Innovation (ISEI) Supply Chain Forum
April 13-14	H.A.R.D. Hack - hardware-focused hack-a-thon hosted by HKN, IEEE, and Triton NeuroTech
April 17	**42nd Annual Jacobs School Research Expo**
April 30	Harry E. Gruber Professor of Computer Science Chair – Barna Saha
May 18-19	TritonHacks: High school hackathon targeting underrepresented student populations
June 13	**Spring CAP Executive Board Meeting**
June 15-16	Commencement

UC San Diego
JACOBS SCHOOL OF ENGINEERING
Corporate Affiliates Program

Thank you!
Next CAP Executive Board Meeting:
June 13, 2024