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& ENGINEERING

UC San Diego
JACOBS SCHOOL OF ENGINEERING

AROUND CSE

News and highlights from your
Computer Science and Engineering Department
at the University of California San Diego

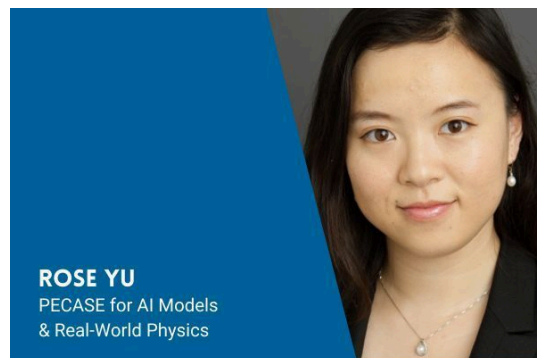
VOLUME 7 | January 2025

CSE NEWS



UC San Diego's Larry Smarr Elevated to IEEE Fellow

Distinguished Professor Emeritus **Larry Smarr**, a pioneer in scientific computing, supercomputer applications, and Internet infrastructure has been named a fellow of the Institute of Electrical and Electronics Engineers, one of the world's most prestigious engineering organizations. [Read More](#)



ROSE YU
PECASE for AI Models
& Real-World Physics

Five UC San Diego Researchers Earn Presidential Early Career Awards

CSE's **Rose Yu** is one of five faculty members at UC San Diego to earn the Presidential Early Career Award for Scientists and Engineers (PECASE), the highest honor bestowed by the United States government on researchers in the early stages of their respective fields. [Read More](#)

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ANNUAL REPORT 2024

SHAPING THE FUTURE OF COMPUTING



[View Annual Report](#)



MIRO HALLER
Google Fellowship
in Security

CSE PhD Earns Prestigious Google Fellowship in Security

CSE's **Miro Haller** has been awarded a 2024 Google Fellowship – one of six graduate students worldwide recognized in Security, Privacy and Abuse Prevention. He contributed to the discovery of the [Blast-RADIUS](#) vulnerability presented at the USENIX Security 2024 conference. [Read More](#)

CRA AWARD WINNER



Venkataram Sivaram

CSE Undergrad Earns Top Honors in CRA Competition

Computer science major **Venkataram Sivaram** is the first student from UC San Diego to earn top honors as a recipient of the prestigious [CRA Outstanding Undergraduate Researcher Award](#). CSE's **Sonia Fereidooni** earned honorable mention. [Read More](#)

NOTEWORTHY

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Assistant Professor **Pat Pannuto** received a Best Paper Award at SPICES 2024 The 3rd Workshop on Security and Privacy in Connected Embedded Systems Workshop of EWSN 2024 for the paper, "[Tabula Rasa: Starting Safe Stays Safe](#)." The paper's co-authors include UCSD students **Tyler Potyondy**, **Samir Rashid**, and **Anthony Tarbinian** along with Princeton University's Leon Schuermann.



In the midst of the tragic Los Angeles wildfires, firefighters received real-time information from a webcam system developed by UC San Diego researchers, including CSE's continuing lecturer **Ilkay Altıntaş**, more than 25 years ago. A [story by kpbs](#) explores the impact of the project dubbed [HPWREN](#).



Rachael Wellisch, CSE's director of student affairs, was honored with a GEPA Certificate of Appreciation for Advancing Equity by UC San Diego Division of Graduate Education and Postdoctoral Affairs for her exceptional advocacy and support of equity, diversity, and inclusion on our campus.



UC San Diego recognized outstanding faculty and students for fostering equitable, diverse, and inclusive opportunities to improve undergraduate student experiences. Congratulations to our recipients:



- CSE's MA student **Andrew Oabel** for an [Inaugural Mentorship Award](#) in Science, Technology, Engineering, and Mathematics (STEM) by Mentoring for All.
 - Professor **Mia Minnes** for an [Inaugural Student Centeredness Award](#) by the Vice Chancellor for Student Affairs and Campus Life.
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CSE EVENTS



SoCal Programming Language and Systems Workshop
UC San Diego
February 7
[Learn More](#)

Bioengineering & CSE Career & Networking Fair
Institute of Americas
February 12
[Learn More & Register](#)

Weekly on Mondays
(Check email for details)



GenAI SUMMIT

February 20-21, 2025

Generating Collaboration in GenAI

GenAI is creating profound changes in our society. The purpose of the two-day UC San Diego GenAI Summit is to create a platform for researchers, students, and industry professionals to share ideas, highlight the latest breakthroughs by UC San Diego researchers, and educate the campus on the implications and possibilities of GenAI.

[Learn More: GenAI Summit](#)

Invited Speakers: Covering All of AI



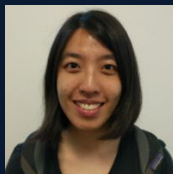
Russ Salakhutdinov
Professor @CMU | VP of GenAI
@Meta



Shakir Mohamed
Research Director @DeepMind



Elad Hazan
Professor @Princeton | Director
of AI @Google



Anna Huang
Assistant Professor @MIT



Earlence Fernandes
Assistant Professor @UCSD



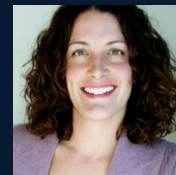
Pat Casey
CTO @ServiceNow



Misha Belkin
Professor @UCSD



Hao Su
Associate Professor @UCSD

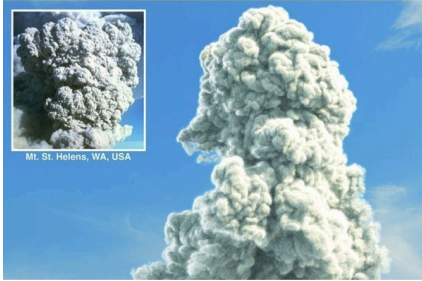


Rommie Amaro
Professor @UCSD

RESEARCH CENTERS & INSTITUTES

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This New Advanced Method Produces Highly Realistic Simulations of Fluid Dynamics



A photo from Mt. St. Helens explosion compared to a computer simulation



Simulated smoke ejection from a rocket

Researchers from the UC San Diego [Center for Visual Computing](#) have developed a groundbreaking method for generating highly realistic computer-generated images of fluid dynamics in elements such as smoke. The new technique, called Coadjoint Orbit FLIP (CO-FLIP), improves upon existing Fluid Implicit Particles (FLIP) methods, and has applications in scientific verification and analysis and for entertainment purposes such as movies, video games, and virtual reality.

The research was presented at the prestigious SIGGRAPH Asia 2024 conference, where it received a Best Paper Honorable Mention for its contributions to computer graphics and physics-based simulation. The paper was authored by graduate students **Mohammad Sina Nabizadeh** and **Hang Yin**, undergraduate student **Ritoban Roy-Chowdhury**, and faculty members **Ravi Ramamoorthi** and **Albert Chern**. [Read More](#)



UC San Diego



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