# AROUND CSE

News and highlights from your
Computer Science and Engineering Department
at the University of California San Diego
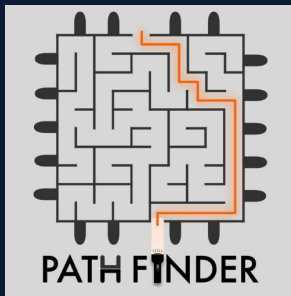
**VOLUME 6 | May 2024**

## CSE NEWS

### Fan Chung Is Elected to NAS: One of 5 from UC San Diego

The National Academy of Sciences has elected five UC San Diego professors, including Distinguished Professor of Mathematics and Computer Science **Fan Chung**, to membership in the prestigious academy. Read More

### UC San Diego's Newest ACM Fellows: Vineet Bafna and Mikhail Belkin

Professor **Vineet Bafna** and Halıcıoğlu Data Science Institute Professor and CSE affiliate **Mikhail Belkin** are among the 68 researchers worldwide selected as new ACM Fellows for transformative contributions to computing science and technology. Read More

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# Computer Scientists Unveil Novel Attacks on Cybersecurity

Billions of high-end Intel processors could be compromised by two novel types of attack according to a multi-university and industry research team, which includes CSE Professors **Dean Tullsen** and **Deian Stefan** and PhD student and first author **Hosein Yavarzadeh**. Read More





## CSE Faculty Named as Amazon Research Award Recipients

Professors **Yufei Ding, Sicun Gao**, and **Nadia Heninger** were named Amazon Research Award recipients for proposals in the areas of Automated Reasoning, AWS AI, and Cryptography and Privacy. Gao's award was his third in three years. Read More

## Technique to Improve Computer Processing Earns Best Paper

A team of researchers, including Professor **Dean Tullsen** and MS alum **Sankara Prasad Ramesh**, has proposed a novel instruction prefetching technique, earning a best paper award at the 2024 ACM ASPLOS Conference. Read More

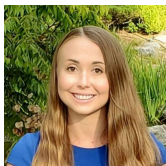## NOTEWORTHY



CSE research is featured at the 2024 IEEE International Conference on Robotics and Animation (ICRA) conference held in Japan earlier this month.



Groundbreaking 3D imaging research led by Professor **Henrik Christensen** allows Mercedes Benz Research & Development North America to tap into state-of-the-art resources at the Autonomous Vehicle Laboratory, according to Business Wire.



Congratulations, **Amber Knight**, for receiving the inaugural "Innovation in Advising Award" – one of 8 winners recognized from across campus at the annual Dean of Undergraduate Education's (DUE) Undergraduate Academic Advising Awards.



Gordon Ye (BS '23), a 2023-2024 Churchill Scholar at the University of Cambridge, has been named a 2024 Knight-Hennessy Scholar by Stanford University School of Medicine.

**UCSD Fallen Star**, a competitive programming team that consists of two CS undergrads and one CS graduate student, continued its impressive winning streak with an appearance at the International Collegiate Programming Conference (ICPC) North America Championship held in Orlando this month.

Three teams of researchers from UC San Diego earned [2024 Qualcomm Innovation Fellowships](#), including CSE PhD student **Alex Bellon** for "Crowd-Sourced and Private IoT Device Updates." CSE Professor **Pat Pannuto** is a PI on the project.
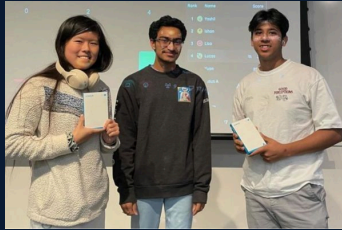
# CSE EVENTS

**CSE End of the Year Celebration**
*Awards ceremony and lunch*
**Save the Date:** Friday, June 7, 2024
10:00 am - 1:00 pm

**CSE Graduation Celebration – Debugging to the Finish Line!**
*Welcoming graduates to the CSE alumni community*
**Save the Date:** Friday, June 7, 2024
2:00 pm - 4:00 pm

**TOCKWorld Conference**
(with Professor Pat Pannuto)
June 26-28, 2024

**CSE Alumni Summer Picnics**
*Registration info coming soon*
Sunday, August 11, 2024 - Seattle
Sunday, August 18, 2024 - Bay Area
Saturday, September 21, 2024 - San Diego

## CSE Day – Your Day to Shine

Computer Science and Engineering Day was held Tuesday, May 14 in the CSE building. Hosted by CSE and several student organizations, the day included a project showcase, an alumni panel discussion on the topic "Academia to Industry," a friendly Code Sprint Debugging Challenge as well as a Trivia Throwdown. Thank you to everyone who made this event a success.
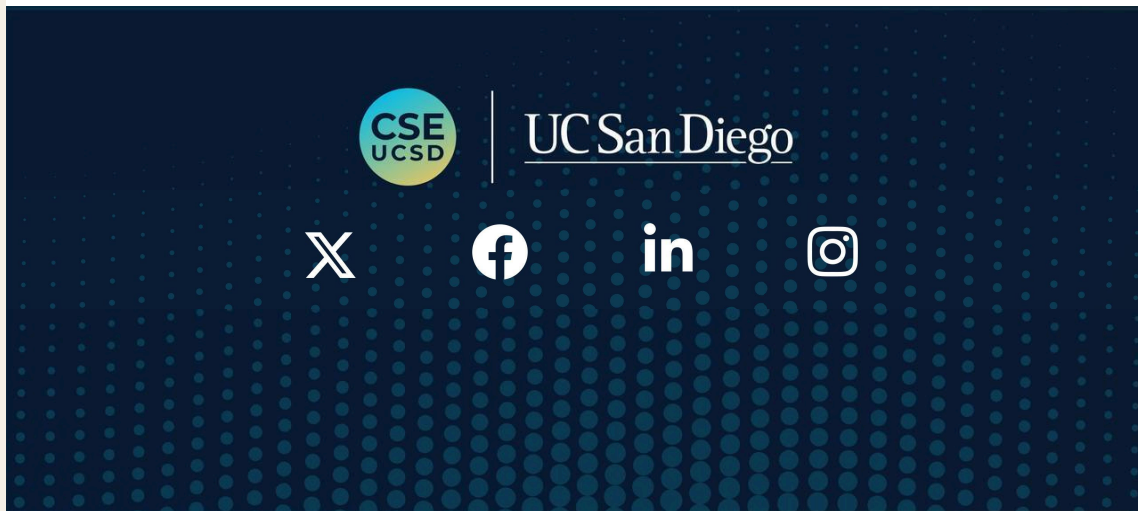
# RESEARCH CENTERS & INSTITUTES

**The Center for Networked Systems:
2024 Annual Research Review**

*CNS/CSE faculty and students presented
research on topics ranging from ransomware
attacks and chatbot honeypots to low-carbon
computing, memory systems, and the cloud.*

The [Center for Networked Systems](#) (CNS) held its annual [CNS Research Review](#) on May 9 and 10. Now in its second decade, the event introduced the latest research from CNS graduate students and faculty to roughly 70 attendees, including industry representatives from companies such as Cisco, Google, and Qualcomm. CNS researchers led 18 talks on a wide-range of critical, real-world challenges in modern computing and data processing infrastructure. There were also two-minute lightning talks, poster presentations, and a dinner reception with sunset ocean views.