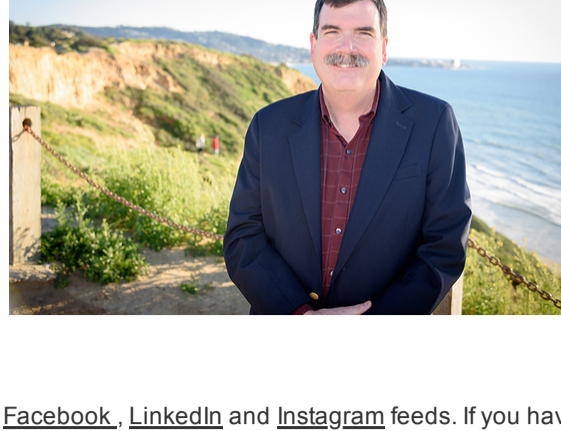




CSE NEWSLETTER: A LOOK INSIDE THE DEPARTMENT

Message from the Chair

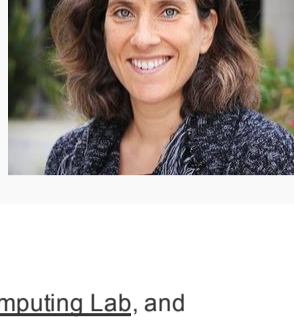
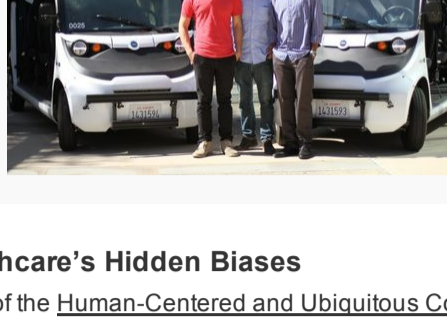
From developing drone technology to catching credit card thieves to measuring ocean parameters with surfboard fins, CSE faculty and student research is shaping the world. We recently put together a [department fact sheet](#) to highlight some of this research.



And the work doesn't stop. Ongoing research is uncovering hidden biases in healthcare, advancing self-driving vehicles and exploring many other areas.

For more news, in real time, you can follow our [Twitter](#), [Facebook](#), [LinkedIn](#) and [Instagram](#) feeds. If you have news, story ideas or comments to share with our CSE Communications Team, please send them to newsworthy@cs.ucsd.edu.

NEWS FROM CSE



\$2.8 Million Grant to Study Healthcare's Hidden Biases

Associate professor Nadir Weibel, head of the [Human-Centered and Ubiquitous Computing Lab](#), and collaborators [Wanda Pratt](#), [Andrea Hartzler](#) and [Janice Sabin](#) at the University of Washington, have received a [\\$2.8 million grant from the National Library of Medicine](#) to study hidden biases in healthcare and hopefully develop methods to help rectify them.

Self-Driving Carts Deliver Mail to Warren and Sixth Colleges

In collaboration with fleet services, logistics, the mailing center and the police department, the [Autonomous Vehicle Laboratory](#) (AVL) has deployed two self-driving vehicles to support research and mail delivery. Last summer, AVL vehicles delivered mail to Warren and Sixth colleges. Many routes were quite challenging, testing pedestrian/vehicle interactions in unstructured environments under constant construction.

Google ExploreCSR Grant Offers Undergraduate Research Opportunities

CSE Teaching Professor and JSOE Associate Dean for Students [Christine Alvarado](#) received an \$18,000 [Google Grant](#) to provide undergraduate research opportunities for women studying computer science at area community colleges. Alvarado and colleagues believe this extra support will help more women make the transition to UC San Diego and other four-year colleges.

Embrace, Empower, Elevate

CSE's Diversity, Equity and Inclusion Committee has developed a [vision statement](#) to inform all future initiatives: *We embrace people from all identities, including but not limited to people with different backgrounds, ethnicities, genders, and sexual orientations...* In addition, CSE has created a [Diversity Fund](#). All donations will support increased diversity throughout CSE.

NOTEWORTHY



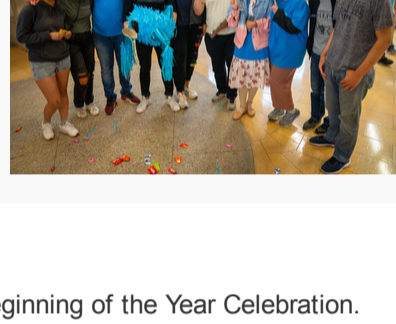
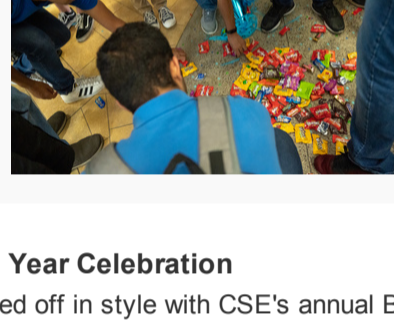
Assistant professor [Jishen Zhao](#) has been inducted into the IEEE/ACM International Symposium on Microarchitecture ([MICRO](#)) [Hall of Fame](#), which honors researchers who have consistently contributed high-impact research.

[Taner Halicioğlu](#) was recently awarded the 2019 [Chancellor's Medal](#), which recognizes exceptional service in support of UCSD's mission. Halicioğlu graduated with a computer science degree and was Facebook's first full-time hire in 2004. He was instrumental in scaling the hardware infrastructure that enabled the platform's explosive growth. He also worked at Loudcloud, eBay and Blizzard Entertainment before returning to UC San Diego as a lecturer. In 2017, Halicioğlu committed \$75 million to establish the Halicioğlu Data Science Institute—the largest contribution ever made by a UC San Diego alum.

CSE PhD student [Vishwajith Ramesh](#) has been honored as a [Siebel Scholar](#). Each year, the Siebel Scholars program recognizes nearly 100 exceptional students from the world's leading business, computer science, energy science and bioengineering graduate schools. Ramesh is a PhD candidate and NSF Fellow. His research focuses on creating software tools, using machine learning and signal processing, to identify and assess neurological disorders and respiratory diseases.

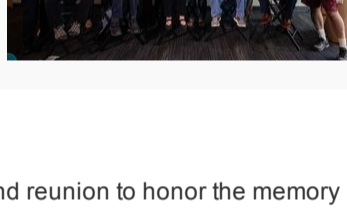
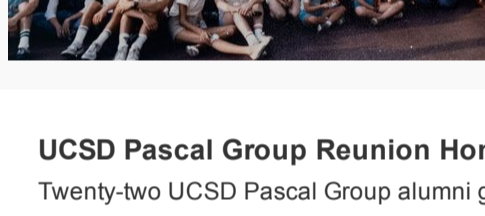
PhD student [Soroush Ghodrati](#) received a bronze in the student research competition at the IEEE/ACM International Symposium on Microarchitecture for [Mixed-Signal Charge-Domain Acceleration of Deep Neural networks through Interleaved Bit-Partitioned Arithmetic](#).

Community in Action



A Spirited Beginning of the Year Celebration

The 2019-2020 school year kicked off in style with CSE's annual Beginning of the Year Celebration. The event welcomed all incoming graduate students, faculty and staff. Dean Tullsen offered opening remarks, department updates and upcoming events, followed by a raucous piñata demolition and a much calmer dinner reception. A fun start for the new school year.



UCSD Pascal Group Reunion Honors Kenneth Bowles

Twenty-two UCSD Pascal Group alumni gathered for a Homecoming Weekend reunion to honor the memory of Kenneth Bowles, a UC San Diego faculty member for 19 years. Bowles gained world recognition for helping create the UCSD Pascal programming system. In 2004, a [scholarship fund](#) was created to honor Professor Bowles' legacy, supporting undergraduates majoring in Computer Science and Engineering.



SD Hacks

The annual SD Hacks hackathon was held on October 25 at Rimac Arena. Sponsored by the [Triton Engineering Student Council](#), the event attracted hundreds of hackers with dozens of projects. CSE and the CSE Alumni Advisory Board hosted an alumni reception in conjunction with the event. Jacobs School of Engineering Dean Al Pisano, CSE Chair Dean Tullsen and CSE Alumni Advisory Board President Aaron Liao contributed opening remarks.



Interviewing Tips from Industry Pros

On October 24, CSE alums Neil Carlson (Qualcomm), Neha Chakra (Facebook), Lindsay Fowler (Amazon), Aaron Liao (Amazon Web Services), Surya Manchikanti (Google) and Valetin Robert (Galois) discussed competing for tech jobs and other industry insights. Around 40 students queried the panelists and networked at the reception.

CENTER FOR NETWORKED SYSTEMS



CNS Research Review

More than 80 people attended the CNS annual research review, which was held on October 10 and 11 in the CSE building. The event featured seventeen research talks and twelve lightning talks by UC San Diego faculty and graduate students. Afterwards, the poster session reception and dinner at the Great Hall gave industry guests a unique opportunity to meet with CNS graduate students, review their research and discuss the posters.

To learn more about CNS and the research review, including details about the talks, check out the [event page](#) or visit the [CNS website](#). If you know a company that has research interests in storage system design, network measurement and traffic analysis, wireless networking, programming language design, cyber-physical security, data center networking, cybercrime analytics or scalable data processing and wants to find out more about becoming a CNS industry member, please drop us an [email](#).

Turing Scholarship

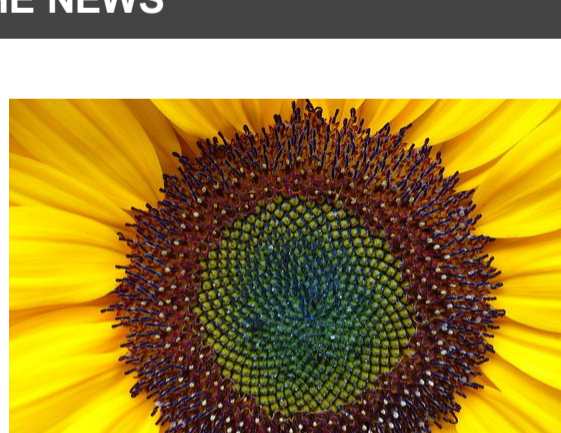
CNS is accepting applications for the 2020-2021 [Alan Turing Memorial Scholarship](#) through January 2020. The scholarship supports undergraduates majoring in computer science, computer engineering or other degrees touching on networked systems who actively support the LGBT community.

CSE IN THE NEWS

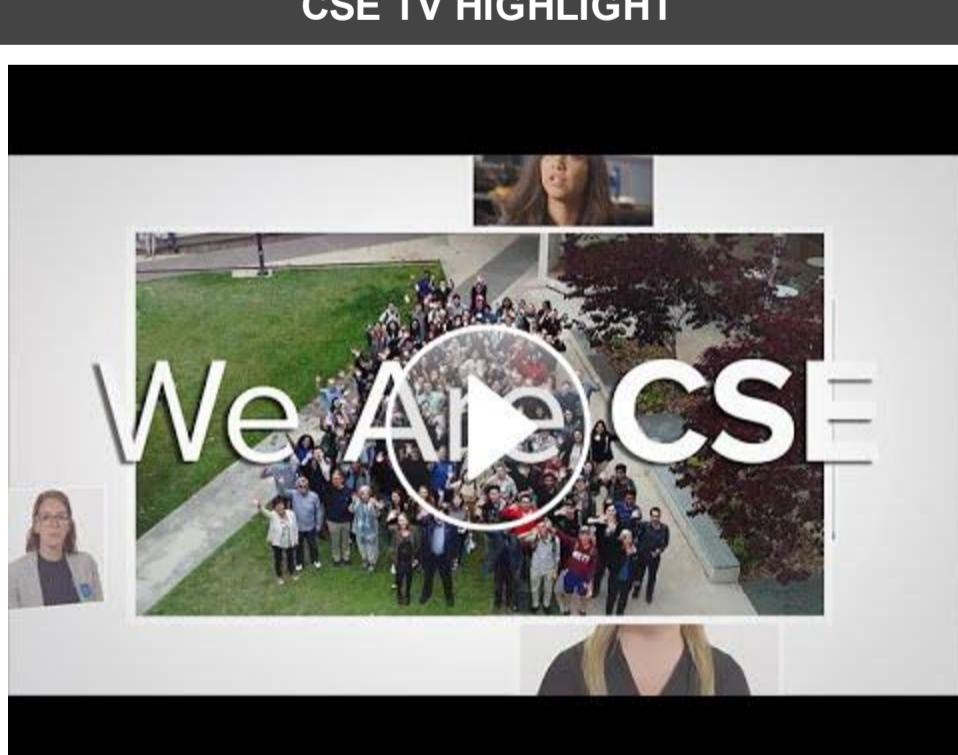
[Quanta Magazine](#): *Mathematicians Begin to Tame Wild 'Sunflower' Problem*

A team of mathematicians and computer scientists has finally made progress on a seemingly simple problem that has bedeviled researchers for nearly six decades.

"If you have a large enough mathematical object of some nature, there has to be some hidden structure inside it," said [Shachar Lovett](#) of the University of California, San Diego, a co-author of the new work along with [Ryan Alweiss](#) of Princeton University, Kewen Wu of Peking University and [Jiapeng Zhang](#) of Harvard University.



CSE TV HIGHLIGHT



UPCOMING EVENTS

Coding Workshops for Kids - November 10 and 17

DIY - Robocar - Scale Autonomous Car Competition - November 16

South Asia Initiative Talk - December 4

CSE Open House - January 31, 2020

For more info, visit the [CSE Events Calendar](#)

Share this email:



Manage your preferences | [Opt out](#) using TrueRemove®

Got this as a forward? [Sign up](#) to receive our future emails.

View this email [online](#).

9500 Gilman Dr. MC 0404
La Jolla, CA | 92093 US

This email was sent to .
To continue receiving our emails, add us to your address book.