

## CSE NEWSLETTER: A LOOK INSIDE THE DEPARTMENT

### Message from the Chair

This year opened with our CSE Winter Research Open House. It was a tremendous opportunity to witness the excellent research being conducted here, and I walked away inspired. With another successful event completed, CSE faculty, staff and student organizers are already planning for the next Research Open House in fall 2020. I encourage you to get involved!



There is much more for our community to be proud of.

I want to congratulate Assistant Professor **Nadia Polikarpova** on her NSF CAREER Award and for being a 2020 recipient of the Sloan Research Fellowship. We also had four faculty members honored with Google Faculty Research Awards. These are just a couple of examples of how CSE faculty are leaders in their fields, earning national and international recognition. I'm also proud to note that PhD student **Jeremy Blackstone** has been selected to the Edward Alexander Bouchet Graduate Honor Society, named for the first African American doctoral recipient in the United States.

This spring will see our second annual Celebration of Diversity on May 15. Please mark your calendars, and I hope to see you there.

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

## NEWS FROM CSE

### Innovation and community on display at the CSE Winter Research Open House

If you missed this year's Winter Research Open House -- including the keynote speaker **Edward Wu (CSE '04)**, the student presentations and poster session, the industry panel featuring **Ryne Chaloux (CSE '15)** of AppFolio and **Parand Darugar (CSE '93)**, a vice president at Coupa -- you can find all the highlights [here](#).

### CSE researchers help develop framework to improve web browser security

CSE researchers, including **Deian Stefan**, **Shravan Narayan**, **Craig Disselkoen** and **Sorin Lerner**, along with Hovav Shacham at University of Texas at Austin, Stanford University and Mozilla, have developed a new framework to improve web browser security. The framework, called RLBox, is being integrated into Firefox to complement its other security-hardening efforts. Read more [here](#).

### Building a new generation of software programming languages

CSE's **Nadia Polikarpova** was recognized with an NSF CAREER Award and named a 2020 Sloan Research Fellow for her novel approaches to automating software programming languages. Find out more about her unique collaborations, including one with linguistics colleagues, [here](#).

### Integrating robots in public and private spaces for the common good

[Read about](#) CSE alumna **Hee Rin Lee**, now an assistant professor in Michigan State University's Department of Media and Information, and her work to integrate robots into our lives for social good. The roots of her research go back to her time in the lab of CSE Professor **Laurel Riek**.

### Lim(b)itless in India

Engineering students, including CSE's **Eric Ngo**, travelled to India recently as part of Project Lim(b)itless, an initiative to develop technology connecting amputees directly to prosthetists. Read about their journey [here](#).

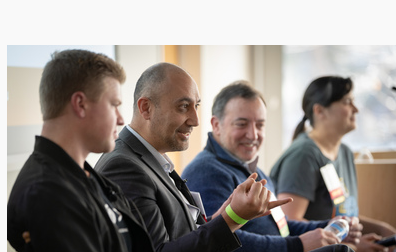
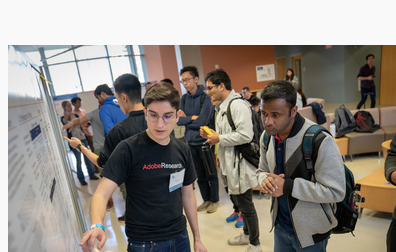
### Computer scientists help teach an AI-powered tool a sense of style

CSE's **Wang-Cheng Kang** and **Julian McAuley**, in collaboration with Pinterest, developed Complete the Look, an AI-powered tool that recommends accessories and other fashion items to match your outfit based on just one photo. Read more about their stylish invention [here](#).

### Algae shown to improve gastrointestinal health

CSE's **Rob Knight** is among the UC San Diego researchers who recently completed the first study examining the effects of consuming *C. reinhardtii* and demonstrated that the algae improves human gastrointestinal issues associated with irritable bowel syndrome. Find out more [here](#).

(Images below from the 2020 CSE Winter Research Open House)



## Noteworthy

- PhD student **Jeremy Blackstone**, who is researching hardware security, has been inducted into the [Edward Alexander Bouchet Graduate Honor Society](#). Named for Edward Alexander Bouchet, the first African American doctoral recipient in the United States, the Bouchet Society recognizes outstanding scholarly achievement and promotes diversity and excellence in doctoral education and the professoriate.
- Professor Emeritus **Scott B. Baden** has been honored as an Inria International Chair for 2020-2024, hosted by the STORM Inria research team at Inria Bordeaux - Sud-Ouest Research Center.
- Congratulation to CSE faculty who received [Google Faculty Research Awards](#): **Kamalika Chaudhuri**, **Aaron Schulman**, **Stefan Savage** and **Arun Kumar**.

## CSE Community in Action

CSE graduate students, faculty, and staff bonded while forming clay figurines during a social hour in February. Led by **Audrey Randall**, the group used modelling clay and tools to make creative clay figurines.



## CENTER FOR NETWORKED SYSTEMS

### Save the Date: CNS Research Review

The [Center for Networked Systems](#) (CNS) has expertise across a wide range of applied research areas, including storage system design, network measurement, traffic analysis, wireless networking, programming language design, cyber-physical security, data-center networking, cybercrime analytics and scalable data processing. Students and faculty work closely with industry partners to identify emerging real-world problems and work on solutions before these problems become critical.

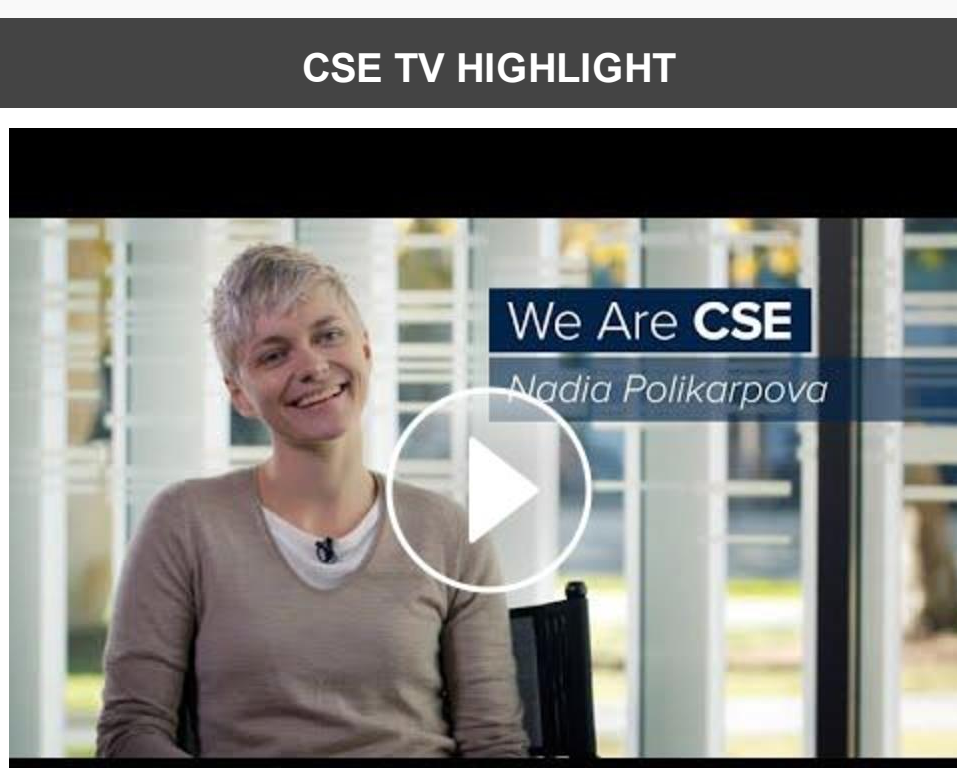
The annual [CNS Research Review](#) provides an opportunity for CNS graduate students, faculty, and industry members to gather and review ongoing research. In addition to research presentations, participants can have one-on-one discussions about current research and new research opportunities. The Research Review will be held on **October 15 and 16 at CSE**.

Attendance is limited to industry sponsors and invited guests. If you are interested in receiving an invitation or finding out about corporate membership, please contact us at [cns@eng.ucsd.edu](mailto:cns@eng.ucsd.edu) or 858-534-5948.

(Image below: CNS Research Review group, 2019)



## CSE TV HIGHLIGHT



## SAVE THE DATE

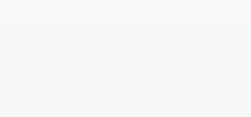
To stay up to speed on all the happenings within the department, visit the [CSE Events Calendar](#).

- [Future of Experiential Technology Symposium](#): How Data-Driven Technology is Shaping Content Creation and User Engagement: March 13, 8:30 am – 6:30 pm  
Conrad Prebys Music Center
- [Career Workshop presented by the CSE Alumni Advisory Board](#): April 2, 6:30 pm, CSE 1202
- [Triton Day for admitted first year students](#): April 4  
CSE, along with the CSE Alumni Advisory Board, will be hosting a Q&A panel from 12:45-1:45 pm in CSE 1202
- [Jacobs School's Research Expo](#): April 16, 1:30 – 6 pm  
More than more than 200 graduate students will be showcasing their engineering and computer science research
- [CSE's 2020 Celebration of Diversity](#): May 15, 8am – 5pm

Let us know what's newsworthy. We want to hear from you about the projects and people (including students) we should put in newsletters, articles and on the CSE website. Let us know what's up at [newsorthy@cs.ucsd.edu](mailto:newsorthy@cs.ucsd.edu).

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