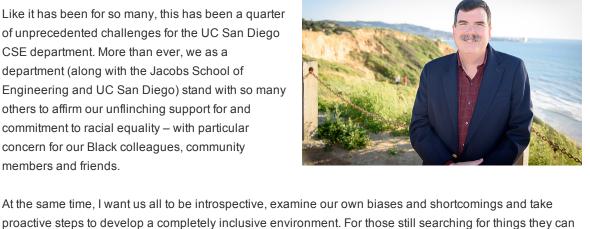




# CSE NEWSLETTER: A LOOK INSIDE THE DEPARTMENT

# Message from the Chair Like it has been for so many, this has been a quarter

of unprecedented challenges for the UC San Diego CSE department. More than ever, we as a department (along with the Jacobs School of Engineering and UC San Diego) stand with so many others to affirm our unflinching support for and commitment to racial equality - with particular concern for our Black colleagues, community members and friends.



needs more help to keep up the good work. As we close out this academic year, I couldn't possibly be prouder of our faculty, staff and students for their hard work and flexibility during these unprecedented times. It was a daily battle for most to keep up with the constantly changing demands, modalities and regulations. Yet, from my view, the faculty and staff never took

do, our CSE Diversity, Equity, and Inclusion committee has had a huge influence on the department, but

their eyes off the (sometimes conflicting) goals of student safety and uncompromised academic and educational excellence. For the CSE Class of 2020 - you certainly had a unique experience and should be proud. We missed the traditional graduation ceremonies, but we still acknowledge all of your achievements.

This is my last newsletter as department chair. Sorin Lerner will be taking over soon, and I am confident he

will take great care of the department. Have a wonderful, healthy and safe summer. Stay connected over the summer by following our Twitter, Facebook and LinkedIn and Instagram feeds. If you have news to share, story ideas or comments for our CSE Communications Team, please send them

to newsworthy@cs.ucsd.edu.

We are so proud of our CSE Class of 2020 for all they have accomplished under challenging circumstances. Special congrats to the following CSE student achievement awardees.

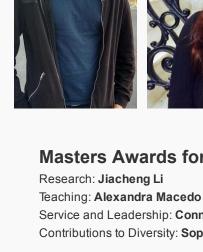
STUDENT ACHIEVEMENT AWARDS

# Teaching: Joseph Geumlek Service and Leadership: Vignesh Gokul

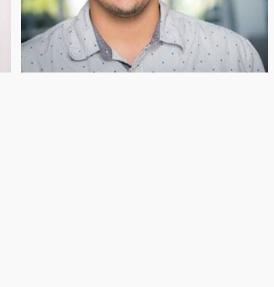
Contributions to Diversity: Aditi Mavalankar Contributions to Diversity: Adrian Salguero

**Doctoral Awards for Excellence** 

Research: Shravan Narayan







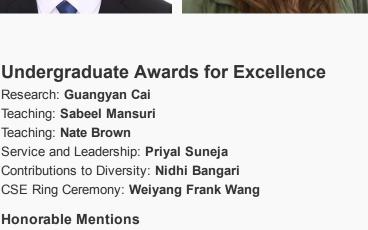
Research: Prannoy Pilligundla Teaching: Shreeman Hariharan

**Undergraduate Awards for Excellence** Research: Guangyan Cai

Teaching: Sabeel Mansuri Teaching: Nate Brown

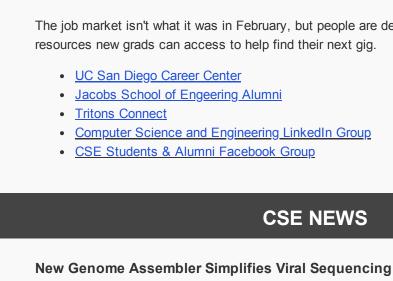
**Honorable Mentions** 

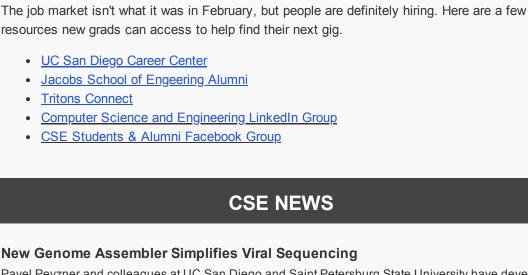
Research: Kabir Nagrecha Research: Sara Safa



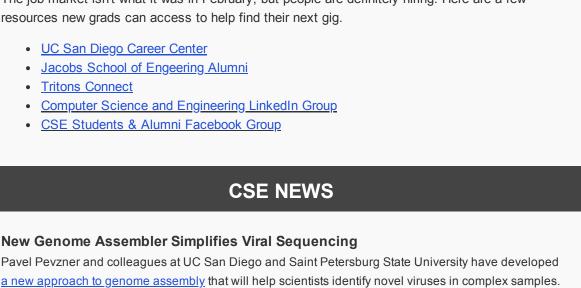


Leadership and Service: Madeline Sporkert





JOB SEARCH RESOURCES



## genome, even when it is mixed with thousands of others viruses and bacteria. Researchers Win Test of Time Award for Paper that Changed the Auto Industry Stefan Savage and colleagues first gave the automotive industry a wake-up call in 2010 when they

demonstrated the ability to hack a car's computer system. This work was honored with the Test of Time

Award, at this year's IEEE Symposium on Security and Privacy, for its broad and lasting impact.

New Algorithm Analyzes Genetic Building Blocks of Immunity

The technique, called metaviralSPAdes, allows researchers and clinicians to isolate a single viral

**Extending Our Computer Vision** PhD student Michael Barrow and colleagues have spent years working on ways to use computer vision to give surgeons better anatomical views to guide minimally invasive procedures. His work was honored at the CSE Winter Research Open House for best industry poster.

Yana Sofonova, Pavel Pevzner and colleagues have developed a new gene prediction algorithm, called MINING-D, which could help researchers investigate the genetics that drive symptom variations in COVID-19 patients. Published in PLOS Computational Biology, these results may illuminate how

# immune system genes create personalized antibodies against invading pathogens.

**Using Vocalizations to Detect COVID-19** UC San Diego researchers are part of a multinational effort to use vocal changes to detect COVID-19. These groups are gathering audio samples from people who have tested positive (and negative) for COVID-19. The researchers, including the UC San Diego group, led by Shlomo Dubnov, a professor in the Departments of Music and Computer Science and Engineering, are using algorithms and neural

networks to pick out patterns. The goal is to detect infection by simply having people speak or cough

Pavel Pevzner has receivd a \$300K NSF grant, through the EArly-concept Grants for Exploratory Research (EAGER) mechanism, to study COVID-19. The project is called: Assembling the Immunoglobulin Loci Across Mammalian Species and Across the Human Population.

ISCA has honored CSE Department Chair Dean Tullsen, along with Rakesh Kumar, then a PhD student at UC San Diego and first author on the paper, and Victor Zyuban, with the 2020 Influential Paper Award for its lasting impact. The paper examines how interconnections on multiprocessor chips



can affect power, performance and design.

Researchers Receive Influential Paper Award

Alvarado Honored for Outstanding Teaching

into their phones.

New COVID Grant

gathering is prudent.

Welcome Tzu-Mao Li

The CSE Brochure

alumni and other topics.

**Larry Smarr Retires** 

methods. Li will be joining the CSE faculty in July 2021. Call to Code Webinar As part of Call for Code, IBM and Clinton Global Initiative University invite developers, problem solvers, social innovators and university students to join Visualizing Data and Unity AR/VR in the time of COVID-19 on Thursday, June 11 at 3 pm EDT. Avi Schiffmann, 2020 Webby Awards Person of the Year, and others will discuss building a website with COVID-19 data and how people can leverage existing tools to innovate. The registration deadline is June 10 at 8:59 pm.

If you haven't already, be sure to check out the latest CSE Brochure, which provides a comprehensive overview of the department. The brochure examines faculty, education, reserarch, honors and awards,

After 20 years at UC San Diego, Larry Smarr is stepping down as the director of the California Institute

will be retiring at the end of June. She has been instrumental in building CSE's fundraising program, recruiting industry partners, meeting with alumni, and helping lead the CSE Research Open House.

It's a bittersweet moment for Hames, who has enjoyed working with CSE faculty, staff, students and alums, but she is also looking forward to retirement in Arizona and spending more time with her

The cool drone shot in the We Are CSE video, was based on one of her ideas.

husband and their eight grandchildren. Good luck Becky, we miss you already!

for Telecommunications and Information Technology (Calit2) and will retire as a distinguished

Tzu-Mao Li will be joining CSE as an assistant professor. Li is currently a postdoc at MIT CSAIL, studying the connections between visual computing algorithms and modern data-driven

## professor from the Jacobs School of Engineering's Computer Science and Engineering Department at the end of this month. **Farewell Becky Hames** After 20 years in higher education, the past three as CSE director of External Relations, Becky Hames

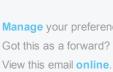
OPEN HOUSE

# CSE TV HIGHLIGHT

# cse.ucsd.edu

Let us know what's newsworthy. We want to hear from you about the projects and people (including students) we should include in newsletters, articles and the CSE website. Let us know what's

CSE.UCSD.EDU



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

Share this email:

up at newsworthy@cs.ucsd.edu.

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

Manage your preferences | Opt out using TrueRemove® Got this as a forward? Sign up to receive our future emails

Subscribe to our email list.