



CSE NEWSLETTER: A LOOK INSIDE THE DEPARTMENT

### I'm excited to welcome students, faculty and

Message from the Chair

staff back to school. Needless to say, this is going to be another unusual quarter, as we keep adapting to the stresses that COVID-19 places on our lives. This has been a tough road, but we have learned a lot, and I cannot be prouder of our department's dedication to students, education and research. In addition to our efforts to develop remote

courses on the fly, many CSE faculty and students have collaborated on research and other efforts to contain

As we enter this unprecedented school year, my one question to you is: How can we improve the Computer Science and Engineering Department and better address the needs of our students? Our bottom line, always,

this disease. We will continue on this road, as we strive to ease the suffering associated with COVID.

Stay connected with CSE 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 <u>cse-communications@eng.ucsd.edu</u>.

is to make sure everyone gets the education and support they need. Please let us know what more we can

**COVID-19 UPDATES, RESOURCES & Research** Through these unprecedented times, UC San Diego is making every effort to support students, faculty

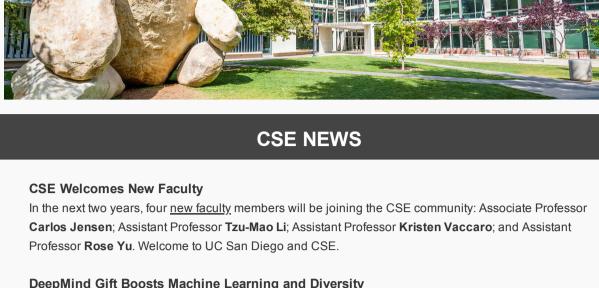
and staff. Here are a few helpful links to answer your questions.

### Testing Q&A <u>Testing and Screening</u>

COVID Notify

do to ease the way.

Fall Plan



## the Campaign for UC San Diego will also help the department enhance diversity.

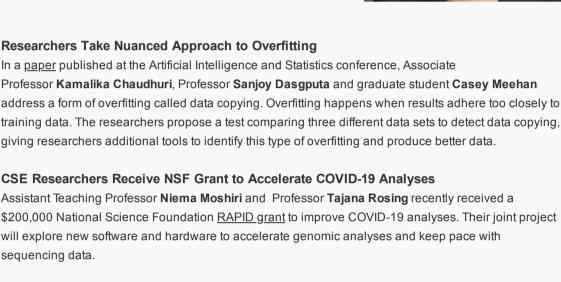
**COVID-19 Forecast Now Part of CDC Model** A computational model, developed by Assistant Professors Rose Yu and Yian Ma and others at UC San Diego and Northeastern University, that forecasts the number of COVID-19 deaths in the United States is now part of the Centers for Disease Control's national mortality forecast. The model is designed to help policymakers respond to the pandemic.

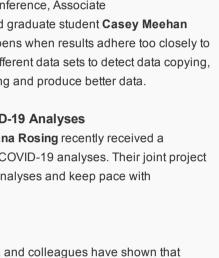
### grant to study equity in computer science. CSE's share will be \$348,000. Led by Anna Bargagliotti at

Robots Help Children Touch Outside World Associate Professor Laurel Riek and colleagues are working to improve telepresence robots, and the algorithms that drive them, helping children with disabilities stay connected. The effort is being funded by a \$1 million grant from the National Robotics Initiative at the National Science Foundation.

Loyola Marymount University, the researchers will study application, admission and retention data to better understand how demographics and pre-college preparation influence computer science success.







# mystery. The findings could help researchers advance vaccine development.

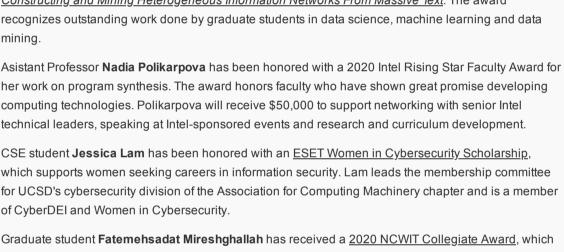
Assistant Professor Jingbo Shang was a runner-up for the ACM SIGKDD Dissertation Award for:

In a study published in the journal <u>Genome Research</u>, Professor **Pavel Pevzner** and postdoctoral researcher Yana Safonova have shown how four-part VDDJ antibodies form, solving a thirty-year-old

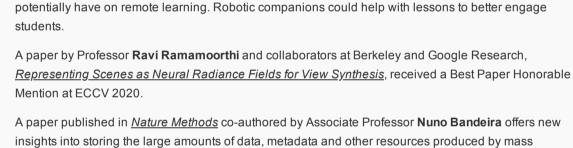


Shredder project.

to teach computers how to understand human language.

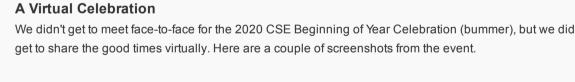


U.S.have developed the metaflye assembler, which assembled DNA from microbial communities. This



work could impact drug development and other applications.

spectrometry-based proteomics.



**ALUMNI SPOTLIGHT** 

After earning his Ph.D. last year, CSE alumn Joseph Jaeger has gone on to a postdoc appointment at the University of Washington and earned accolades with a Best Paper by Early Career Researchers



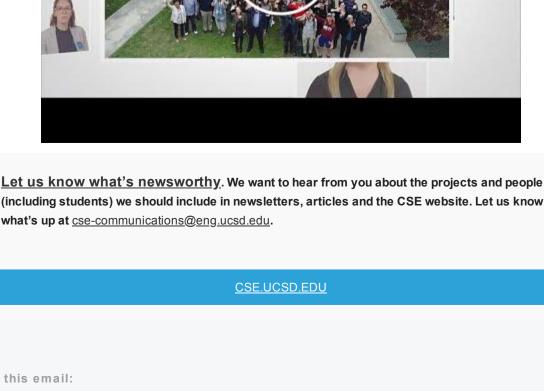
Award at Crypto 2020.

Joseph Jaeger Captures CRYPTO 2020 Award



CSE TV HIGHLIGHT





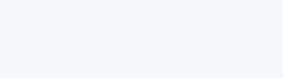


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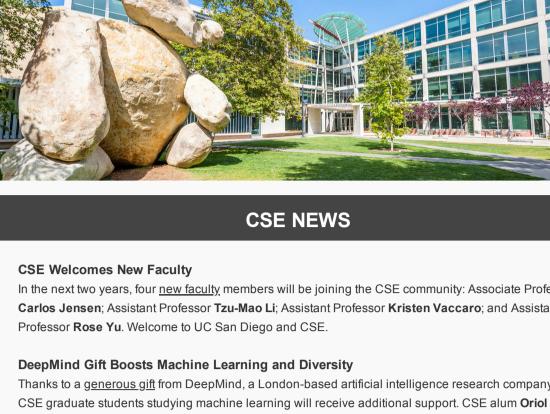
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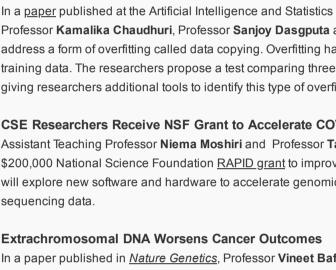


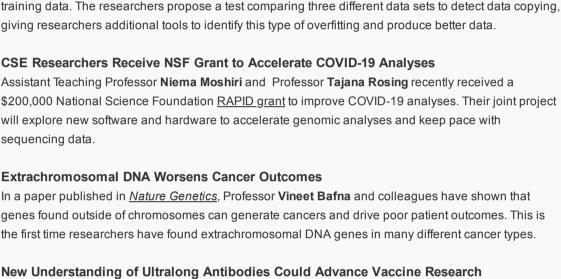




Vinyals (MA '09), a principal scientist for the company, was instrumental in the gift. This contribution to

### **NSF Grant to Study Equity in Computer Science** Jacobs School of Engineering Associate Dean for Students Christine Alvarado and colleagues at three other California institutions have received a three-year, \$1.3 million National Science Foundation







In another Nature Methods paper, Professor Pavel Pevzner and colleagues in Russia and the

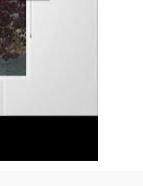
projects that demonstrate innovation and potential impact. Mireshghallah was honored for her

In an interview with <u>Bloomberg</u>, Professor Henrik Christensen discusses the impact robots could

COMMUNITY IN ACTION







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