



CSE NEWSLETTER: A LOOK INSIDE THE DEPARTMENT

Message from the Chair

May is Mental Health Awareness Month and a good time to reflect on how the COVID-19 crisis has affected us. No doubt, the new routines, shifting priorities and stress may be taking a toll.

Remember, there are numerous campus resources we can turn to during these difficult times. A recent article in [This Week @ UC San Diego](#) outlines them quite well. The [UC San Diego COVID-19 Information](#) portal offers another good list.

On a more positive note, I would like to welcome new faculty Rose Yu and Kristen Vaccaro. Also, congratulations to Sorin Lerner, who will be taking over as department chair, starting July 1, 2020.

As difficult as this pandemic has been, it has also been a source of great pride, as I watch faculty, staff and students step up to meet this crisis head-on. Although there is still quite a bit of uncertainty, one thing we do know is that, with hard work and mutual support, we will all get through it.

For more news, in real time, you can follow 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 newsorthy@cs.ucsd.edu.



CSE NEWS

Engineering Creative Solutions During COVID-19

Michael Barrow, a PhD candidate in the [Kastner group](#), is [leading efforts](#) to better distribute acute care expertise in hospitals and develop more effective DIY ventilators. Barrow is working closely with Shanglei Liu, MD, a general surgeon at Mayo Clinic and the project's clinical primary investigator, as well as MIT, Scuola Superiore Sant' Anna Pisa in Italy and several private companies.

COVID-19 Rapid Response

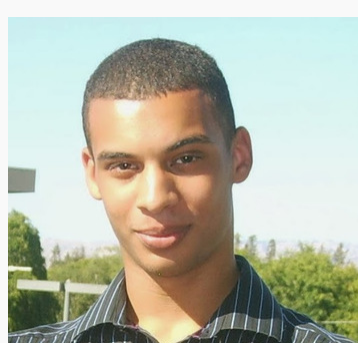
Nadir Weibel and others across campus have teamed up to create an online platform called [CoRESPOND](#) that supports clinicians and researchers who need help answering questions, performing tasks or locating resources to respond to the COVID-19 pandemic. CoRESPOND engages hundreds of experts, ranging from clinical researchers to scientists, engineers and innovators (faculty, staff and students) to help provide solutions. The platform is part of UC San Diego's [Earth 2.0 COVID-19 Rapid Response](#) initiative.

Tracking Viral Evolution

In an article published in [The Conversation](#), assistant teaching professor Niema Moshiri discusses the importance of tracking COVID-19 evolution and the tools he and other researchers are using to get it done.

Citizen Scientists Can Contribute to COVID-19 Research

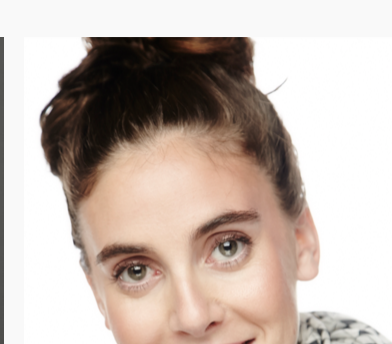
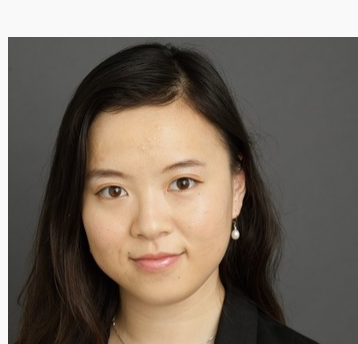
[The Microsetta Initiative](#), a crowdsourced research effort based at UC San Diego School of Medicine, allows citizen-scientists around the world to contribute crucial information about SARS-CoV-2, the novel coronavirus causing the current COVID-19 pandemic.



New Faculty and a New Role

CSE welcomes two new faculty: [Rose Yu](#) and [Kristen Vaccaro](#). Yu is an assistant professor at Northeastern University who focuses on the theory and application of machine learning. Vaccaro recently earned her PhD in computer science at the University of Illinois Urbana-Champaign. Her dissertation is entitled: *Designing for User Agency and Control in Algorithmic Systems*.

Congratulations to Sorin Lerner, who will be taking over as CSE department chair from Dean Tullsen, on July 1, 2020, for a three-year term.



Noteworthy

Assistant teaching professor [Niema Moshiri](#) and professor [Tajana Rosing](#) have received a \$200,000 National Science Foundation RAPID grant to study COVID-19. Their project is titled: *Real-time phylogenetic inference and transmission cluster analysis of COVID-19*.

[Fatemehsadat Mireshghallah](#), a PhD student in [Hadi Esmaeilzadeh's](#) group, has been honored with a 2020 National Center for Women & Information Technology (NCWIT) [Collegiate Award](#) for her work on data privacy. Her project is called [Shredder](#).

A 2005 paper co-authored by [Dean Tullsen](#) is being honored with a 2020 Influential ISCA Paper Award. [Rakesh Kumar](#) and [Victor Zyuban](#) were also authors. The paper, entitled *Interconnections in Multi-Core Architectures: Understanding Mechanisms, Overheads and Scaling*, was presented at the 32nd International Symposium on Computer Architectures.

CSE undergrad and incoming Quiz Bowl Club President [Alistair Gray](#) was a [recent contestant](#) on the 2020 Jeopardy College Championship. UC San Diego was one of 15 schools represented. Gray did not advance to the semifinals but had a great time and was excited to meet Alex Trebek.



CSE Community in Action

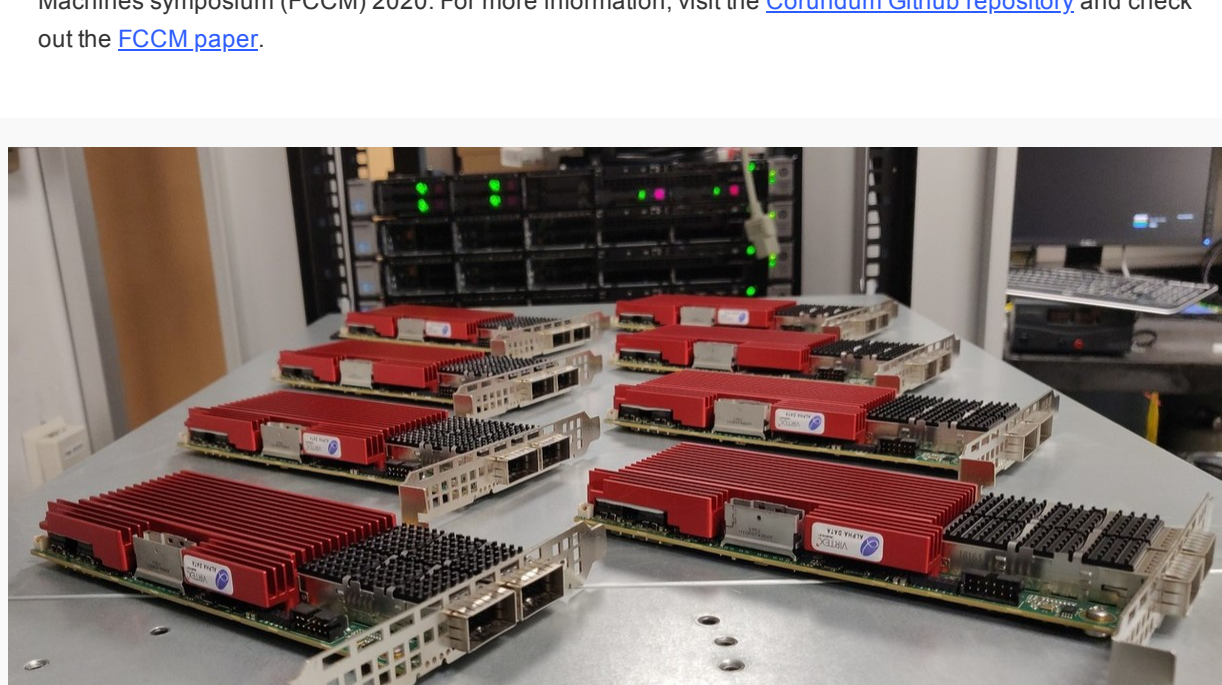
CSE's [Diversity, Equity and Inclusion Committee](#) is pleased to offer bi-weekly guided meditations to encourage deeper, more authentic connections during this stressful time. All you need is 30 minutes and a place to sit quietly. The sessions focus on equanimity, self-awareness, and compassion. The next [Zoom](#) meditation is **Tuesday, May 19 at 4:30 pm**.

CENTER FOR NETWORKED SYSTEMS

New Hardware Supports Network Interface Research

Networked servers transfer information at hundreds of gigabits per second and require sophisticated interfaces to function at those speeds. To develop new features, researchers need a flexible, programmable hardware prototyping platform, and CNS researchers have developed one. Postdoc [Alex Forencich](#) has helped create Corundum, a field-programmable gate array-based network interface card.

Corundum can help researchers develop advanced network interfaces, architectures and protocols and is currently being used to investigate how precisely controlling packet transmission can improve network performance. The technology was recently described at the Field-Programmable Custom Computing Machines symposium (FCCM) 2020. For more information, visit the [Corundum Github repository](#) and check out the [FCCM paper](#).



CSE TV HIGHLIGHT



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