

Message from the Chair

Hello everyone. On Jan 31, UC San Diego resumed in-person instruction, and we are all excited to come back to campus. As the quarter gets into full swing, we have many upcoming events, including:

- A distinguished (hybrid) talk by Nicki Washington on February 7;
- The CSE Career Fair on February 9;
- CSE Graduate Student Visit Day, March 10-11;
- CSE Research Open House on March 30.



Sorin Lerner

We recently posted two Twitch live streams with CSE Alum and content creator Mayuko (See below) and PhD student Ariana Mirian. You can watch all our live streams at the [CSE YouTube channel](#).

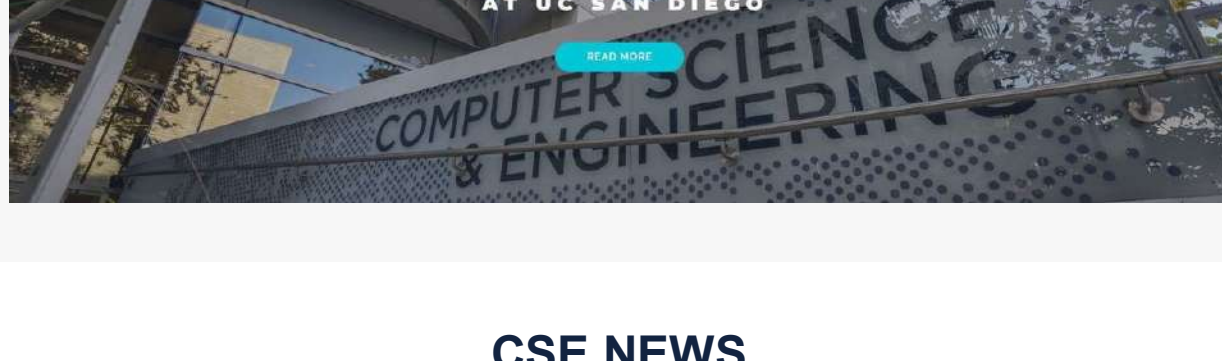
Thank you all for your continued efforts. As we continue to work on our collective sense of community, let's keep pushing forward.

Sorin Lerner, CSE Department

Chair

Stay connected with CSE by following our [Twitter](#), [Facebook](#), [LinkedIn](#) and [Instagram](#) feeds. If you have news, story ideas or comments for our CSE Communications Team, please send them to cse-communications@eng.ucsd.edu.

CSE ANNUAL REPORT



CSE NEWS

2021 ACM Fellows

Ranjit Jhala and Tajana Šimunić Rosing have been named [Association for Computer Machinery \(ACM\) Fellows](#). Jhala was honored for his contributions to software verification and Rosing for her work on power, thermal and reliability management.

Long-Reads and Powerful Algorithms Identify “Invisible” Microbes

In a study published in [Nature Biotechnology](#), an international research team, including Pavel Pevzner, has shown that highly accurate, long-read genomic sequencing technology can reveal previously hidden microbes, providing new insights into complex biological samples.

\$14M NIH Grant Funds Microbiome and Metagenomics Center

The National Institutes of Health has made a [\\$14 million grant](#) to establish a Microbiome and Metagenomics Center at UC San Diego, part of a nationwide effort to predict individual responses to food and inform personalized nutrition recommendations.

Inventing Improvisational AI

[Shlomo Dubnov](#) and [G rard Assayag](#), a researcher at the Institute for Research and Coordination in Acoustics/Music in Paris, recently received a  2.4 million (around \$2.8 million) European Research Council Advanced Grant. Dubnov and Assayag will be working on Project REACH: Raising Co-creativity in Cyber-Human Musicianship, which is teaching computers how to improvise, musically.

New Research Reveals How Routers Intercept Internet Traffic

A CSE research team, including [Geoffrey M. Voelker](#), [Stefan Savage](#), [Aaron Schulman](#) and [Audrey Randall](#), [has shown that](#) Domain Name Specific (DNS) traffic can be intercepted, generating privacy concerns. The work was presented at last year's Internet Measurement Conference.

A New Educational Computing Platform

[Larry Smarr](#) and others have recently launched the [UC San Diego Data Science/Machine Learning Platform](#), which offers new opportunities for professors and students who require more bandwidth for their work on machine learning, data visualization and other data-intensive tools.

New DeepMind Fellows Announced

Congratulations to [Avni Kothari](#) and [Henry Li](#), CSE's two newest [DeepMind Fellows](#). Made possible by a generous gift from DeepMind, these fellowships support machine learning students from cultural, racial, linguistic, geographic and socioeconomic backgrounds and genders that are underrepresented in ML graduate education.



Ranjit Jhala and Tajana Šimunić Rosing



Shlomo Dubnov



Avni Kothari and Henry Li

NOTEWORTHY

[Leo Porter](#), alum [Ranjita Bhagwan](#) and [Yusu Wang](#) have all been recognized as [ACM Distinguished Members](#).

Postdoc [Gabriele De Micheli](#), along with co-authors [Pierrick Gaudry](#) and [C cile Pierrot](#), received the best paper award at Asiacrypt 2021 for [Lattice Enumeration for Tower NFS: a 521-bit Discrete Logarithm Computation](#).

[Jessica Lam](#) is a finalist for the Computing Research Association's (CRA's) [Outstanding Undergraduate Researcher Award](#) for 2022. [Ana Selvaraj](#) received an honorable mention.

PhD student [Mary Anne Smart](#) has become one of seven Jacobs School Racial Equity Fellows, who act as student advocates on the [Student and Faculty Racial Equity Task Force](#).

The National Security Agency recently announced its [Best Scientific Cybersecurity Research Paper](#). [Shravan Narayan](#), [Craig Disselhoen](#), [Tal Garfinkel](#), [Nathan Froyd](#), [Sorin Lerner](#) [Hovav Shacham](#) and [Deian Stefan](#) received an honorable mention for [Retrofitting Fine Grain Isolation in the Firefox Renderer](#).

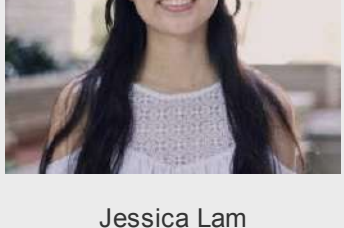
[Gatam Akiwate](#) has won the [Applied Networking Research Prize for Risky BIZness: Risks Derived from Registrar Name Management](#). This is the second consecutive CSE win: [Audrey Randall](#) won last year for [Trufflehunter: Cache Snooping Rare Domains at Large Public DNS Resolvers](#).

[Stefan Savage](#) has received a [Diamond Award](#) from the University of Washington School of Engineering, which honors outstanding alumni for their contributions to the field.

Algorithmic Toolbox, a series of online Coursera classes taught by [Daniel Kane](#), [Alexander Kulikov](#), [Pavel Pevzner](#) and [Neil Rhodes](#), is one of the top [250 most popular online courses](#) across all disciplines. Three other courses from UCSD made the list, including *Learning How to Learn*, taught by [Terry Sejnowski](#) and [Barbara Oakley](#); *Python for Data Science*, taught by [Ilkay Altintas](#) and [Leo Porter](#); and *Introduction to Big Data*, taught by [Natalasha Balac](#).



Gabrielle De Micheli



Jessica Lam



Mary Anne Smart

WE ARE CSE

“

I love the idea of applying computer science techs to facilitate research in other sciences. Currently my research interest is on facilitating bioinformatics sequencing.

NIYA SHAO
Undergrad CS Major



#WEARECSE

CENTER FOR NETWORKED SYSTEMS

Turing Scholarship Deadline

[Applications](#) for the [Alan Turing Memorial Scholarships](#) are due by March 2. The scholarship is for enrolled UC San Diego undergraduates who actively support the LGBTQIA+ community and major in computer science, computer engineering, public policy, communications or other programs that touch on networked systems.



CSE VIDEO HIGHLIGHT

In our latest Twitch live stream, Chair Sorin Lerner chats with CSE alum and content creator Mayuko.



UPCOMING EVENTS

Nicki Washington

As part of the Diversity, Equity & Inclusion (DEI) Seminar Series, Duke University Professor Nicki Washington will be speaking at CSE. Her lecture, *Designing to Disrupt: The Importance of Identity-Inclusive Computing Education*, will be held on February 7 at 11 am in CSE 1242 and via Zoom.

Career Fair

The CSE Career Fair will be held on Feb 9, from 12-3 pm. More to come.



Nicki Washington

Let us know what's noteworthy. 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 up at cse-communications@eng.ucsd.edu.

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