

**Message from the Chair**

What a summer this has been! The CSE building has been buzzing with activity, with some summer programs, like COSMOS, coming back in person. Traveling has picked up again, with many of us flying and taking summer trips. And as you can see below, our academic endeavors have not slowed down. I'm very excited that we have four new faculty joining us: Michael Coblenz in Software Engineering, Earlence Fernandes in Computer Security, Amy Ousterhout in Computer Systems and Daniel Grier in Quantum Computing. Welcome!



Sorin Lerner

The summer is also a good time to reset our academic year clock and start looking forward to the year ahead. This coming year will be an exciting one. We will celebrate our 35th birthday. We will redouble our efforts toward our education and research missions. We have many events planned and many new initiatives to talk about. Stay tuned!

As always, please be in touch. Please be bold. Please be engaged. Please be supportive. Together we can reach new heights.

Sorin Lerner, CSE Department Chair

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**CSE NEWS**

The core of EnCORE: co-principal investigators include (from left to right) Yusu Wang, Barna Saha, Kamalika Chaudhuri, (top row) Arya Mazumdar, Sanjoy Dasgupta and (not pictured) Gal Mishne.

**New \$10M NSF-Funded Institute Will Get to the Core of Data Science**

A new National Science Foundation initiative has created a [\\$10 million dollar institute](#), led by computer and data scientists at UC San Diego, to transform the core fundamentals of the rapidly emerging field of Data Science. Called The Institute for Emerging CORE Methods in Data Science (EnCORE), the institute will be housed in CSE in collaboration with The Halcioğlu Data Science Institute (HDSI).

**A Trifecta: CSE Faculty are Honored with NSF CAREER Awards**

Three CSE assistant professors – Taylor Berg-Kirkpatrick, Ndapa Nakashole and Rose Yu – were recognized by the National Science Foundation (NSF) as [2022 recipients](#) of the Faculty Early Career Development (CAREER) awards.

**Coronavirus Jumped to Humans at Least Twice at Wuhan Market**

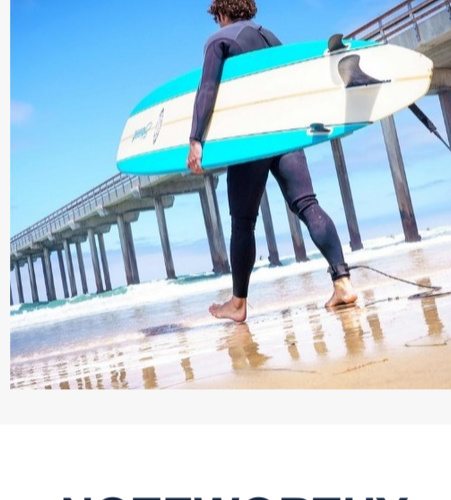
An epidemic simulation tool called FAVITES, developed by CSE Assistant Professor Niema Moshiri, and a study co-authored with master's student Katherine Izhikevich, were instrumental in [tracing the origin of the COVID-19 pandemic](#) to the Huanan Seafood Wholesale Market in Wuhan and identifying at least two instances of the SARS-CoV-2 virus jumping from live animal hosts to humans.

**New Algorithm Helps Identify Antibody Genes**

In a study published in the journal [Genome Research](#), CSE Professor Pavel Pevzner and investigators from Johns Hopkins University have illuminated the immunoglobulin (antibody) genes in 20 mammalian species, gaining new insights into their targets and evolutionary origins. To make these findings, the team invented [a new algorithm called IGDetective](#).

**Surfing for Science**

This summer, CSE Professor Ryan Kastner and a team of students participating in the Engineers for Exploration (E4E) program are investigating surf breaks near UC San Diego to improve the Smartfin – a surfboard fin equipped with temperature and location sensors and a wireless device that transmits [data to the cloud](#).

**NOTEWORTHY**

**Sean Gao** has received an [Amazon Research Award](#) for his proposal *Interior Search Methods in SMT*. One of 74 recipients representing 51 universities, Gao will receive research funding and access to Amazon public datasets, services and tools.

**Yu-Ying Yeh** has been awarded a 2022 [Google Fellowship](#) in Machine Perception, Speech Technology and Computer Vision to research algorithms that [enable photorealistic content creation](#) automatically for augmented and virtual reality applications.

**Hadi Esmaeilzadeh** and Ph.D. students **Byung Hoon Ahn** and **Sean Kinzer** were nominated for a Design Automation Conference (DAC) Best Paper Award for their research, [Glimpse: Mathematical Embedding of Hardware Specification for Neural Compilation](#).

CSE will be welcoming four new faculty members this fall as assistant professors: **Michael Coblenz**, **Earlence Fernandes**, **Daniel Grier** and **Amy Ousterhout**. Congratulations and a warm welcome! (Read more about these new faculty members in upcoming newsletters.)

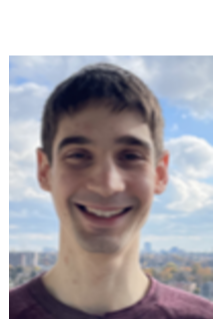
Academic Advisor **Andrea Willis** received a 2021-22 Exemplary Staff Employee of the Year Award as one of just 15 university employees selected from 130 nominations.



Michael Coblenz



Earlence Fernandes



Daniel Grier



Amy Ousterhout

**CSE ALUMNI**

**Vincent Rabaud** (Ph.D. '09) and his co-authors received the ICCV Helmholtz Prize, known as the Test of Time award, for their 2011 paper on *ORB: an efficient alternative to SIFT or SURF*.

**Cynthia Bagier Taylor** (Ph.D. '12) has been named chair of the Oberlin College Computer Science Department.

**Alexander Gamero-Garrido** (Ph.D. '21) was awarded the [Ford Foundation Postdoctoral Fellowship](#) by the National Academy of Sciences.

**CENTER FOR NETWORKED SYSTEMS****CNS Presents Hot Carbon '22: Workshops on Sustainability in Computing**

On July 10, Hot Carbon came to UC San Diego's CSE campus for a first-of-its-kind conference presented by the Center for Networked Systems. Nearly 200 people, including 60 in person, attended the event, offering researchers and practitioners in computer and network systems a forum to discuss sustainability throughout the entire lifecycle of modern computing. Fourteen papers were presented, focusing on the root causes of unsustainability in current designs. Workshop topics ranged from Internet of Things devices and the lifespan of CPUs to trends in energy and carbon efficiency.

**CSE VIDEO HIGHLIGHT**

Five teams from CSE's "video game class" recently showed off their talents and technical skills during the [debut of their video games](#) built in a mere ten weeks. Below, Team 2 presents [Skrrt Skirt](#) -- a fast-paced, beauty pageant where the only one racer can win the crown. See the other games ([Chairtoteers](#), [Farmer's Market](#), [The Meoze Runner](#) and [Eternal Ritual](#)) on our [YouTube channel](#)!



**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 up at [cse-communications@eng.ucsd.edu](mailto:cse-communications@eng.ucsd.edu).

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