

Message from the Chair

While the end of the quarter nears, the pace of our passion and achievements does not slow. Deian Stefan received a Sloan Fellowship, and Tajana Rosing received an Intel Outstanding Researcher Award.

On the academic side, we are seeing unprecedented demand for our graduate programs: a record 7,196 applications for Fall 2022, consisting of 1,319 for the PhD and 5,877 for the MS program.

In addition, the Halicioğlu Data Science Institute, in collaboration with CSE, is launching a new Master of Data Science Online, which is scheduled to start in Fall 2022.

You can find more information on the [UC San Diego website](#).

Please do not hesitate to contact me to share your story. I look forward to seeing more and more of you in person in March.



Sorin Lerner

Chair

Sorin Lerner, CSE Department

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CSE NEWS**Stefan Receives Sloan Fellowship**

Deian Stefan has been honored with an [Alfred P. Sloan Research Fellowship](#). Stefan will receive \$75,000 during the two-year fellowship to advance his work on browser security.

Meta PhD Research Fellows

CSE boasts two of this year's 37 [Meta PhD Research Fellows](#). PhD students Stewart Grant and Kabir Nagrecha will present their research, learn about current work at Meta and receive tuition and fees for up to two years, as well as a \$42,000 stipend.

CSE Changemaker KC Claffy (PhD '94)

[Kimberly \(KC\) Claffy](#) had just completed her PhD in UC San Diego's Department of Computer Science and Engineering when she noticed a problem: internet measurement data for scientific research might not always be available.

CSE's New Postdoc Fellows

This year's class of [CSE Fellows](#) includes post-PhD researchers from Canada, Italy and France. This diverse group of scholars was selected for the second CSE Fellows cohort, which was launched in 2020 to give newly minted PhDs more opportunities during the coronavirus-fueled economic downturn.

Master of Data Science Online

UC San Diego is launching its first online graduate degree program this fall to help meet the demand for data scientists. Applications for the new [Master of Data Science Online](#) program, launched jointly by the Halicioğlu Data Science Institute and CSE, are now open.

Meet Barna Saha

The road from Siliguri, a small town outside Darjeeling, India to UC San Diego's Department of Computer Science and Engineering is long. For new CSE [Associate Professor Barna Saha](#), that road was paved by her diligence and intellect and marked by a series of impressive achievements.



Deian Stefan



Kabir Nagrecha and Stewart Grant



Barna Saha

NOTEWORTHY

Tajana Rosing has been honored as one of 17 [Intel 2021 Outstanding Researchers](#)

Deian Stefan has been selected to join Intel's [Resilient Architectures and Robust Electronics](#) (RARE) research center.

Henrik Christensen will be active at the [2022 International Conference on Robotics and Automation](#) (ICRA), submitting a paper and organizing six forums.

Laurel Riek will be speaking at the ICRA workshop, *Shared Autonomy in Physical Human-Robot Interaction: Adaptability and Trust*. Riek was also featured in the *Science* article [Dream Machine](#) about improving robotic interfaces for sick children.

CSE alum and Carnegie Mellon assistant professor **Zach Lipton** (PhD '17) was recently featured on the *Trends in Machine Learning & Deep Learning* [podcast](#).



Tajana Rosing



Laurel Riek



Zach Lipton

WE ARE CSE

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I study the theoretical foundations of computer science. What makes certain computational problems solvable using efficient algorithms, whereas others seem to be impossible to solve? My work aims to shed light on this mystery by studying the mathematical structure of efficient computation.

SHACHAR LOVETT

Associate Professor



#WEARECSE

CENTER FOR NETWORKED SYSTEMS**IRR vs. RPKI**

For many years, the Internet Routing Registry (IRR) has been one of the primary mechanisms to protect against unauthorized rerouting of Internet traffic. However, IRR databases are not strictly authenticated. In 2012, the Resource Public Key Infrastructure (RPKI) was deployed as a more secure alternative. The RPKI boosts information integrity but also adds complexity and cost, limiting its growth.

Recently, PhD student Ben Du, along with Alex C. Snoeren and KC Claffy, published [IRR Hygiene in the RPKI Era](#), which explores the dynamics between RPKI and IRR. The team compared the completeness and consistency of the IRR and RPKI databases and studied the underlying causes of the inconsistencies to better understand how the ecosystem is evolving. This paper will be presented at the [Passive and Active Measurement Conference \(PAM\) 2022](#) in March.



Ben Du



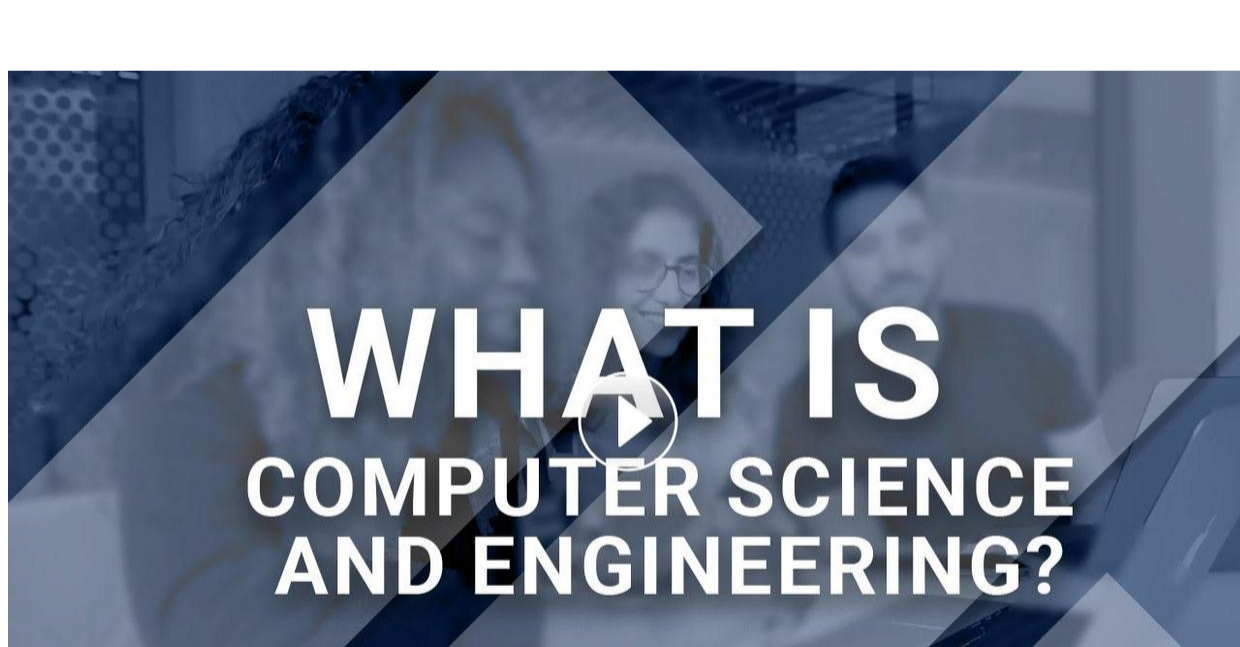
KC Claffy



Alex Snoeren

CSE VIDEO HIGHLIGHT

Check out all the amazing undergrad opportunities at CSE.

**UPCOMING EVENTS****Starting Prysm**

CSE alum **Shelby Thomas** will be sharing the ups and downs of starting his tech company, Prysm, on Monday, February 28, at 11 am, in CSE 1242 and via [Zoom](#) (Passcode: 789987).

PH.D. '20

Shelby Thomas**Persevering and Pioneering in a Pandemic**

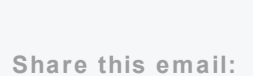
Shelby Thomas decided to launch a startup, Prysm, in winter 2020—just a month before the COVID pandemic hit.



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.

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