



CSE NEWSLETTER: A LOOK INSIDE THE DEPARTMENT

Message from the Chair

And just like that, fall quarter is a wrap. There were challenges of course. We learned how to run hybrid meetings and how in-person classes work during a pandemic.

On the lighter side, we were reminded that walking time between in-person meetings actually takes time; and we were reacquainted with the connect-to-overhead-projector puzzle, which has resurfaced with a vengeance.

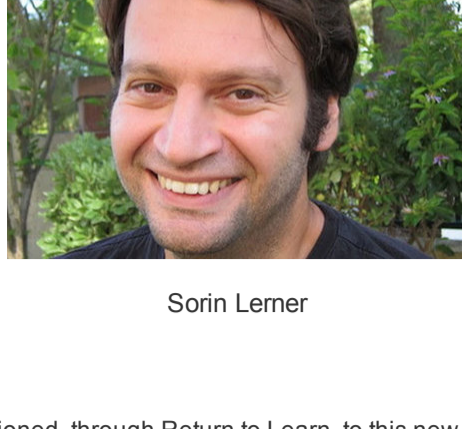
But above all, we got to see each other again, in person, in classrooms, in the building and in the courtyard. We collaborated face-to-face on research, teaching and planning for the future. It's inspiring to see how we have transitioned, through Return to Learn, to this new normal.

The CSE Holiday Party and Jacobs School Holiday party also offered great opportunities to interact in a more informal way. We've included pictures below.

Be sure to check out the [CSE Annual Report](#), which features our collective achievements in 2020-21. The report is an inspiring show of community and resilience.

Let us reflect on how far we've come. But most importantly, let us connect and get excited about the journey ahead. We have so much more work to do to change the world. You are all critical components in our mission to educate the thought leaders of a digital tomorrow, so rest up, and do the things that fill your cup over the winter break. Stay safe, keep in touch, and we will see you in 2022.

Sorin Lerner, CSE Department Chair



Chair

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CSE ANNUAL REPORT



CSE NEWS

Shape-Shifting Chips Offer Greener Way To Meet AI Demand

Thanks to a grant from the National Science Foundation, a CSE team led by Hadi Esmaeilzadeh, along with researchers at MIT, will be developing a new generation of multi-tenant, fast, efficient and environmentally-friendly [accelerator chips](#) to help meet exploding demand for artificial intelligence.

Tullsen Brings Home Another Test of Time Award

The high-performance, low-power processors running today's devices come with a big assist from Dean Tullsen, Rakesh Kumar and others at UC San Diego and HP Labs. Now, the paper that spawned these novel processor architectures has been recognized with a MICRO Test of Time Award.

Tool Protects Private Browsing Data

Deian Stefan, CSE colleagues and Brave Software have [developed a tool](#) that improves private data protections while browsing the web. Called SugarCoat, the tool targets scripts that could invade users' privacy. SugarCoat substitutes scripts that perform the same tasks but don't endanger privacy.

ServiceNow Makes \$1.25 Million Gift

Software company [ServiceNow](#), which was founded in San Diego in 2004, has made a \$1.25 million gift to advance educational opportunities for computer science students and support broader programmatic expansion at the Jacobs School of Engineering. With Chancellor's Scholarship matching funds, the total impact is \$1.75 million.

Figurative Language Confuses Chatbots

[Dialogue systems](#), such as personal assistants and chatbots, can't handle the truth. When faced with idioms or similes, their performance drops precipitously. But CSE researchers, led by Taylor Berg-Kirkpatrick, have a solution: Scripts that identify figurative phrases and convert them to literal speech dialogue systems can understand.

Who's Got Your Mail?

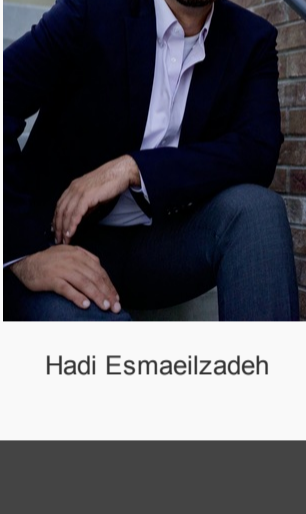
A CSE research team, led by Stefan Savage, has shown [Google and Microsoft](#) host most of the business email outside of China and Russia. This concentration could leave the data vulnerable to system failures and/or breaches.

How Pandemic Lockdowns Impacted Internet Use

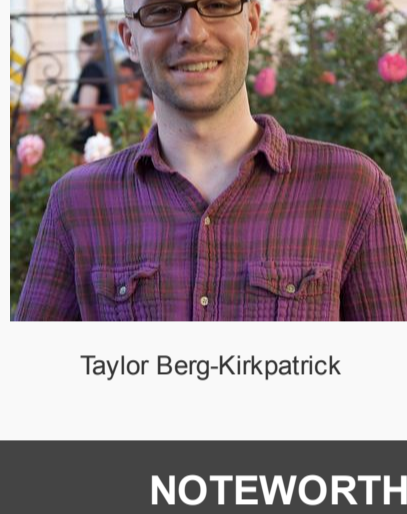
CSE researchers Alex Snoeren, Alisha Ukani and Ariana Mirian recently studied how the [COVID-19 pandemic](#) influenced internet browsing during the lockdown. Armed with de-identified internet use data from UC San Diego dorm Wi-Fi, the researchers examined how online school and leisure activities shifted – for both American and international students. The study was presented at the ACM Internet Measurement Conference 2021.

Welcome Imani Munyaka

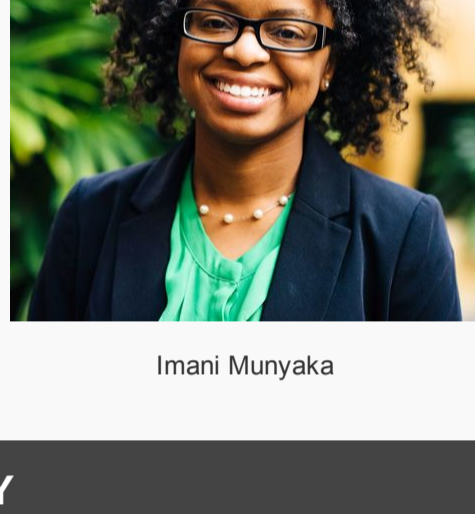
New assistant teaching professor [Imani Munyaka](#) has been studying the security and privacy concerns posed by technology and how they impact vulnerable populations. Munyaka joined CSE this summer and is eager to continue the research she started at the University of Florida while earning her doctorate in human-centered computing.



Hadi Esmaeilzadeh



Taylor Berg-Kirkpatrick



Imani Munyaka

NOTEWORTHY

The San Diego SIM chapter has awarded [Eman Sherif](#) a \$5,000 scholarship for her technical skills, designing an independent research project and supporting underprivileged communities.

[Trey Ideker](#) was recently quoted in an [article](#) about mapping the full molecular content in cells.

A little [grad school advice](#) from [Arun Kumar](#).

CSE HOLIDAY PARTY



COMMUNITY IN ACTION



CSE staffers volunteered for Feeding San Diego.



The undergraduate advising team held its first in-person [Students Who Engage, Learn & Lead \(SWELL\)](#) event this quarter.

WE ARE CSE



As a CSE tutor, I strive to support my students with patience and empathy. I hope that everyone can feel good about asking questions, and I love celebrating with my students when they figure something out!

JUSTIN DU
CSE Tutor



#WEARECSE

CENTER FOR NETWORKED SYSTEMS

Turing Scholarship Awarded

CNS established the [Alan Turing Memorial Scholarship](#) to encourage a more diverse and inclusive community and honor Turing, the mathematician and cryptanalyst who helped invent computer science. This year's awardee is a CS major in Warren College who prefers to remain anonymous.

Congratulations to the recipient and many thanks to all who applied.



Alan Turing

CSE VIDEO HIGHLIGHT

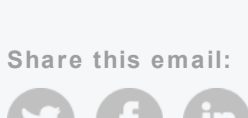
Check out this incredibly memeful video – Some Nights (I Write) – from Max Hopkins, Audrey Randall and Allison Turner. But who's the singer? Only 130 people know.



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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