

SCS WEDNESDAY WIRE | SEPTEMBER 14, 2022

A midweek update from the SCS Dean's Office

SCS NEWS

— Ian Char, a doctoral candidate in MLD, has [used reinforcement learning to help control nuclear fusion reactions](#), a significant step toward harnessing the immense power produced in nuclear fusion as a source of clean, abundant energy.

— Via CyLab: CS Ph.D. students Nirav Atre and Hugo Sadok and CS senior Erica Chiang, along with Assistant Professors in the Computer Science Department (CSD) Justine Sherry and Weina Wang, have [developed an algorithm that could spell the end of one type of denial of service \(DoS\) attack](#).

— The U.S. News and World Report 2022 Best Colleges rankings are out now, and [SCS maintained a #1 overall position for undergraduate computer science education](#). Rankings in undergraduate specialty areas including artificial intelligence, cybersecurity, programming languages and software engineering also have us in the top spot. I know and appreciate that our achievements and the recognition we receive for our school are because of the hard work and commitment of everyone in SCS.

CONGRATULATIONS . . .

. . . to Ph.D. students Charvi Rastogi in the Machine Learning Department (MLD) and Fangzheng Xu in the Language Technologies Institute (LTI) for being awarded [2022 IBM PhD Fellowships](#).

. . . The Center for Machine Learning and Health (CMLH) is pleased to announce 10 recipients of the 2022 Fellowships in Digital Health. These fellowships provide full support for one year for CMU Ph.D. students who are pursuing cutting-edge research that advances digital health, broadly defined. To date, the CMLH has awarded 55 fellowships. Congratulations to these students from across CMU who have been selected as fellows this year:

- Anna Fang, Human-Computer Interaction Institute
 - Venkat Sivaraman, Human-Computer Interaction Institute
 - Nathan Roblin, Department of Materials Science and Engineering
 - Yunzhi Li, Human-Computer Interaction Institute
 - Soyong Shin, Mechanical Engineering Department
 - Shane Elder, Computational Biology Department
 - Jingyi Wu, Biomedical Engineering Department
 - Morgan Evans, Institute for Software Research
 - Mohsen Ferdosi, Computational Biology Department
 - Shahriar Noroozizadeh, Information Systems and Management
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NEW FACULTY “LIGHTNING TALKS”

— If you'd like a brief introduction to several of SCS's newest faculty members, I encourage you to [spend some time watching a series of 2- to 10-minute “lightning talks.”](#) as our new faculty take some time to share highlights of their current research.

ATTENTION ENTREPRENEURS

The Swartz Center for Entrepreneurship has opened applications for the 2022-23 [Swartz Entrepreneurial Fellows](#) program. This initiative helps fast-track the careers of 12 first-year graduate students who are serious and passionate about entrepreneurship in the tech sector. A highly selective program, each fellow's entrepreneurial potential and leadership skills are developed through hands-on experiences, networking, mentoring and courses in entrepreneurship. Proseminar in Entrepreneurial Leadership course weekly attendance is required. [Apply](#) by October 31.

Register for a 12:30 p.m. ET information session:

Wednesday, September 21 - [Register](#)

Tuesday, September 27 - [Register](#)

Wednesday, October 5 - [Register](#)

Until next week,

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REMEMBER YOUR RESOURCES

Connect with a [Dean's Advisory Committee](#) if you have questions or concerns you want to share.

Connect with a representative leader from [SCS Council](#) if you'd like to submit a topic for Council to consider.

Coronavirus [Updates & Information](#) and [FAQs](#)

[SCS Alerts & Resources](#) | [For Students](#) | [For Staff](#) | [For Faculty](#) | [For Researchers](#)