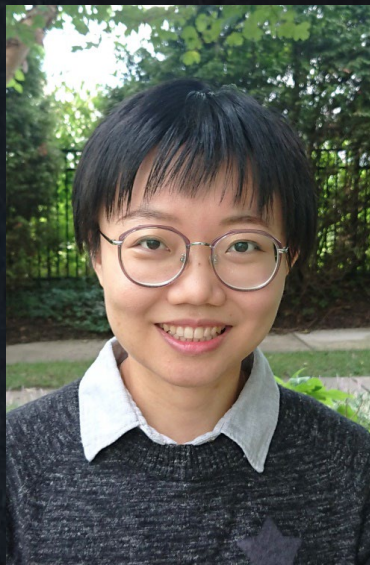




# PROFESSORS & Pizza

Dr. Chrisy Xiyu Du, Assistant Professor



- ❖ Research Associate, School of Engineering and Applied Sciences, Harvard University, 2021-2022
- ❖ Postdoctoral Fellow, School of Engineering and Applied Sciences, Harvard University, 2018-2021
- ❖ Ph.D., Physics, University of Michigan, Ann Arbor, 2018
- ❖ Bachelor of Arts in Physics and Mathematics, Beloit College, 2012

Friday, March 24, 2023

11:00 a.m. to 12:00 p.m.

Holmes Hall 244, Bowers + Kubota Lecture Hall

Please RSVP by noon on March 23<sup>rd</sup> :

<https://forms.gle/MvAxeT6U1uhyn3ua9>

## Programming Soft Materials

Soft Materials, such as liquids, colloids, polymers, foams, and gels, are ubiquitous in everyday life and are crucial in many different forms of revolutionary technologies. One property of Soft Materials is their ability to self-assemble into intricate structures from a finite set of building blocks with continuously tunable parameters. This giant design space of building blocks is a double-edged sword: on one side it provides researchers infinite possibilities to design building blocks for targeted functions, while on the other side it might take forever to search the design space. In this talk, firstly, I will give a brief introduction on what Soft Materials are. Secondly, I will mention how computer simulation and big data approaches can accelerate Soft Materials design. Lastly, I will discuss our current effort on designing bio-inspired soft materials and potential research opportunities in my group.

