Kristine Zheng She/Her

kxzheng@stanford.edu | linkedin | kristinezheng.github.io

EDUCATION

Massachusetts Institute of Technology — Cambridge, MA
B.S. in Computer Science and Brain & Cognitive Sciences; GPA; 5.0/5.0 — Sept. 2020 – May 2024
Minor in Women's and Gender Studies

AWARDS & HONORS

Stanford IRiSS Predoctoral Research Fellowship	July 2024 – Present
MIT EECS|CS+HASS Undergraduate Research & Innovation Scholarship	Sept. 2023 – May 2024
Phi Beta Kappa, MIT Xi Chapter	April 2024
MIT BCS Undergraduate Research Award	April 2024
MIT BCS Academic Award	April 2023, April 2024
Eta Kappa Nu Society, MIT Beta Theta Chapter	Sept. 2023
MIT Undergraduate Research Opportunities Program (UROP) Grant	Sept. 2021 – Aug. 2023
Princeton Neuroscience Institute Summer Internship Program (PNI-SIP)	June – Aug. 2022

RESEARCH

Cognitive Tools Lab, Stanford University — July 2024 – Present
Advised by Prof. Judith E. Fan

Computational Cognitive Science Group, MIT — Sept. 2022 – Present
Advised by Prof. Joshua Tenenbaum

Niv Lab, Princeton University — June – Aug. 2022
Advised by Prof. Yael Niv

DiCarlo Lab, MIT — Sept. 2021 – May 2022
Advised by Prof. James DiCarlo, Prof. Kohitij Kar

PRESENTATIONS & PUBLICATIONS

Zheng, K., Yu, I. (2023, October) Jenga as a Performance Art: Computational Generation of Surprisingly Stable Structures. Poster presented at IEEE MIT Undergraduate Research Technology Conference (URTC). Cambridge, MA.

Zheng, K., Bedder, R., Niv, Y. (2022, November). How do Humans Generalize and Discriminate Between Experiences? Poster presented at the Society for Neuroscience, FUN Undergraduate Poster Session. San Diego, CA.

Paulun, V.C., **Zheng, K.**, Kar, K., (2022, December). Distributed population activity in the macaque inferior temporal cortex but not current deep neural networks predict the ponzo illusion. In *Journal of Vision: Vision Sciences Society (VSS) Abstracts*.

Gong, Y., Brauer M.H., **Zheng, K.** and Li, W. (2020, September). Accelerated, Reactive Aging Tests of Parylene C, SiO2, and Si3N4 Packages for Chronic Neural Implants. *IEEE 15th International Conference on Nano/Micro Engineered and Molecular System (NEMS)*. San Diego, CA.

Gong, Y., Liu,W., Wang, R., Brauer, M.H., **Zheng, K.**, and Li, W. (2020, August). Stability Performance Analysis of Various Packaging Materials and Coating Strategies for Chronic Neural Implants under Accelerated, Reactive Aging Tests. *Micromachines*, 11(9), 810.

INVITED TALKS

Zheng, K., Yu, I. (2023, April). Jenga as a Performance Art. Presented at "Garden of the Mind: reflections & explorations of the mind through its physical creations," MIT President Inauguration Weekend. Cambridge, MA.

Teaching

Teaching Assistant

Stanford PSYCH 10 Introduction to Statistical Methods   Fall 2024

MIT 9.00 Introduction to Psychology   Spring 2023, 2024

Instructor

"Neuroscience behind perceptual illusions" high school seminar with MIT ESP Splash   Nov. 2023

Service & Leadership

Voxel Lab Makerspace, MIT InnovationHQ   June 2023 – May 2024

Staff Facilitator and Communications Lead

- Provide general equipment, shop safety, graphic design/CAD, and sewing machine training to students and organizations
- Organize and lead workshops related to art, music and technology and track student engagement and interest

Peers Leading Education About Sexuality and Speaking Up for   Feb. 2021 – May 2024
Relationship Empowerment(PLEASURE), MIT

Peer Facilitator

- Hold workshops for student groups to promote healthy relationships and reevaluate harmful societal norms
- Run campus events and facilitate challenging conversations across campus and in dorms

Undergraduate Association (UA), MIT   Sept. 2020 – May 2024

Executive Member and Project Lead   Cambridge, MA

- Oversee an arts and creativity focused committee to plan workshops and support student innovation through establishing biannual craft markets
- Member of Ad Hoc Committee on Arts, Culture, and DEI with administrative leaders and faculty to organize a campus-wide arts festival promoting campus diversity and artistic expression (Fall 2024)
- Coordinate communications with administration leaders, with alumni funders, and on media platforms for promoting community and combating food insecurity through Banana Lounge, a student-run space serving 20k free bananas per week

Industry Experiences

TigerGraph   Remote

Developer Advocate Intern   Jan. – Aug. 2022

- Deployed TigerGraph, FastAPI, Flutter, and Firebase to develop a full-stack product recommendation application for educational demos
- Co-led a Full-Stack Flutter application workshop for Women Who Code as part of TigerGraph's Graph for All Challenge
- Expanded user engagement and resources through promoting an active developer community forum

UnitedHealthGroup   Remote

Software Engineering Intern at Optum's Advanced Technology Collaborative   June – Aug. 2021

- Constructed an internal course recommendation system by integrating machine learning algorithms and TigerGraph's graph SQL language (GSQL) and algorithms
- Developed recommendation dashboards and delivered proposal presentations to company executives

Skills

Programming: Python, MATLAB, JavaScript, SQL/GSQL, HTML, CSS

Software/Libraries: PyTorch, jsPsych, ROS, Blender, Realflow, Adobe Creative Suite, Microsoft Suite