

HAOZHE ZHOU

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EDUCATION

Ph.D., School of Computer Science, Carnegie Mellon University
Societal Computing, Software and Societal Systems Department
Advisors: Yuvraj Agarwal, Mayank Goel

August 2022 - Present
Pittsburgh, Pennsylvania, USA

B.S., Department of Computer Science, Purdue University
Computer Science Honors, Minor in Mathematics
GPA: 3.97/4.00, Graduation with Highest Distinction

August 2018 - December 2021
West Lafayette, Indiana, USA

SKILLS AND COMPETENCIES

Research Methods	System Prototyping, Human-Centered Design, User Studies, Online Surveys
Machine Intelligence	Multimodal Machine Learning, Computer Vision, NLP, PyTorch, TensorFlow
Sensing and Signal Processing	Audio, Video, IMU, Passive Infrared (PIR), Millimeter Wave (mmWave) Radar
Software Development	Python, Java, C/C++, Node.js, Javascript, HTML, React, Vue, Android, iOS

INDUSTRY EXPERIENCE

Data Science Intern March 2022 - May 2022
Trendalyze Inc. (Remote) Newark, NJ, USA
Collaborated with medical specialists to design and implement an unsupervised R-peak detection algorithm.
Evaluated multiple R peak detection against MIT-BIH dataset in terms of accuracy and R-peak offset.

TEACHING EXPERIENCE

17422/17722 Building User-Focused Sensing Systems	January 2024 - May 2024
Graduate Teaching Assistant	Carnegie Mellon University, PA, USA
CS250 Computer Architecture	August 2021 - December 2021
Undergraduate Teaching Assistant	Purdue University, IN, USA
STAT290 The Data Mine	August 2021 - December 2021
Undergraduate Teaching Assistant	Purdue University, IN, USA
CS390 Neural Image Processing	January 2021 - May 2021
Undergraduate Teaching Assistant	Purdue University, IN, USA

HONORS AND AWARDS

Sansom Graduate Fellowship, Carnegie Mellon University	October 2023
Graduation with Highest Distinction, Purdue University	December 2021
College of Science Alumni Summer Research Fellowship, Purdue University	April 2021
Summer Stay Scholars Scholarship, Purdue University	May 2020
Computer Science Honors Program, Purdue University	2019 - 2021
Dean's List and Semester Honors, Purdue University	2019 - 2021

PUBLICATIONS

Haozhe Zhou, Mayank Goel, Yuvraj Agarwal. (2024). Bring Privacy To The Table: Interactive Negotiation for Privacy Settings of Shared Sensing Devices. *CHI Conference on Human Factors in Computing Systems*.

Sudershan Boovaraghavan, **Haozhe Zhou**, Mayank Goel, Yuvraj Agarwal. (2024). Kirigami: Lightweight Speech Filtering for Privacy-Preserving Activity Recognition using Audio. *ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)*.

Sangjun Eom, **Haozhe Zhou**, Upinder Kaur, Richard M. Voyles, David Kusuma. (2022) TupperwareEarth: Bringing Intelligent User Assistance to the “Internet of Kitchen Things”. *IEEE Internet of Things Journal*.

Upinder Kaur, **Haozhe Zhou**, Xiabin Shen, Byung-Cheol Min, and Richard M. Voyles. RoboMal: Malware Detection for Robot Network Systems. *2021 IEEE International Conference on Robotic Computing (IRC)*. November 2021.