Violet Yinuo Han

yinuoh@cs.cmu.edu || violethan.com

Research Interest

I am interested in **creating novel interfaces and interactions beyond current flat screen devices for everyday users in the near future**. I reflect on our daily interactions within the physical and digital domains, to push their boundaries and bring advantages of one into another.

Education

PhD Student, Carnegie Mellon University, School of Computer Science Started August 2023
advised by Professor Alexandra Ion

M.S., Carnegie Mellon University Graduated May 2023

B.F.A., University of Michigan Graduated May 2020

Publications

[1] **Robotic Metamaterials: A Modular System for Hands-On Configuration of Ad-Hoc Dynamic Applications**.
Zhitong Cui, Shuhong Wang, **Violet Yinuo Han**, Tucker Rae-Grant, Willa Yunqi Yang, Alan Zhu, Scott E Hudson, Alexandra Ion. In Proceedings of CHI'24, Honolulu, HI. May.11 - May.16, 2024.

[2] **Parametric Haptics: Versatile Geometry-based Tactile Feedback Devices**.
Violet Yinuo Han, Abena Boadi-Agyemang, Yuyu Lin, David Lindlbauer, Alexandra Ion. In Proceedings of UIST'23, San Francisco, CA. Oct.29 - Nov.1, 2023.

[3] **BlendMR: A Computational Method to Create Ambient Mixed Reality Interfaces**.
Violet Yinuo Han, Hyunsung Cho, Kiyosu Maeda, Alexandra Ion, David Lindlbauer. In Proceedings of ISS'23, Pittsburgh, PA. Nov.5 - Nov.8, 2023. **[Best Paper Award]**

[4] **Permeable Thermistor Temperature Sensors Based on Porous Melamine Foam**.
Hugo de Souza Oliveira, Niloofar Saeedzadeh Khaanghah, **Violet Yinuo Han**, Alejandro Carrasco-Pena, Alexandra Ion, Michael Haller, Giuseppe Cantarella, Niko Münzenrieder. In IEEE Sensors Letters, Vol. 7, No. 5, pp. 1-4, Art no. 2500904, May 2023.

Teaching Experience

Computational Perception, Carnegie Mellon University August - December 2022
Instructor: Prof. Tai Sing Lee

- This course investigates human visual perception with computational models. I hosted weekly office hours, created, updated, and graded homework assignments. I created lecture notes to better facilitate students' learning.

Awards and Grants

Snap Creative Challenge Award (10k) with Prof. David Lindlbauer and Dr. Yukang Yan 2022
Carnegie Mellon University SoA Commendation 2022
Carnegie Mellon University SoA Travel Grant 2022
Carnegie Mellon University SoA Merit Scholarship (10k) 2021
Dartmouth College Scholarship (35% of tuition) 2021
UC Berkeley MDes Distinguished Scholar Award (10k) 2021
University of Michigan University Honors 2020
University of Michigan University Honors 2018

Academic Services

CHI Assistant to Session Chair 2024
UIST Student Volunteer 2022