

Research Interests_

Human-computer interaction; robotic ubiquitous interaction; Al augmented reality.

Education

University of California, Los Angeles

Los Angeles, USA

Ph.D. in Human-Computer Interaction Sep 2018 - Current

• Advisor: Xiang 'Anthony' Chen

University of California, Los Angeles Los Angeles, USA

M.S. in Mechanical Engineering Sep 2017 - Sep 2018

Shanghai Jiao Tong University Shanghai, China

B.S. in Naval Architecture and Marine Engineering Sep 2013 - Jun 2017

Publication

IN PREPARATION

Jiahao "Nick" Li, Michelle Li, Stephanie Santosa, Yan Xu, Tovi Grossman. [On Understanding and Predicting Human Intention [11] using LLMs]. In submission to UIST 2023

- Xingyu "Bruce" Liu, Jiahao "Nick" Li, Xiang 'Anthony' Chen, Ruofei Du. Human I/O: Identifying Situational Impairments via [10] Modeling of Human Input/Output Channels. In submission to UIST 2023.
- Jiahao "Nick" Li, Toby Chong, Zhongyi Zhou, Hironori Yoshida, Koji Yatani, Xiang 'Anthony' Chen, Takeo Igarashi. RoboCap: A [9] Robotic Pipeline for Collecting Dataset of State-changing Objects Pose Estimation. *In Submssion to UIST* 2023
- Jiahao "Nick" Li, Ruolin Wang, Li-Yi Wei, Rubaiat Habib Kazi, Stephen DiVerdi, Xiang 'Anthony' Chen. RealityPlay: Authoring
- [8] Interactive and Embedded Graphics Driven by Everyday Objects with User-defined Mappings. Submitted to SIGGRAPH 2023 Conference Track.

FULL PAPER

- Xiaoying Yang, Jacob Sayono, Jess Xu, **Jiahao "Nick" Li**, Josiah Hester, Yang Zhang. MiniKers: Interaction-Powered Smart [7] Environment Automation. In Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT),
- Volume 6 Issue 3, September. 2022.
- Jiahao "Nick" Li, Alexis Samoylov, Jeeeun Kim, Xiang 'Anthony' Chen. Roman: Making Everyday Objects Robotically [6] Manipulable with 3D-printable Add-on Mechanisms. Proc. ACM CHI 2022.
- Abul Al Arabi, Jiahao "Nick" Li, Xiang 'Anthony' Chen, Jeeeun Kim. Mobiot: Augmenting everyday objects into moving IoT [5] devices using 3D printed attachments generated by demonstration. Proc. ACM CHI 2022.
- Jiahao "Nick" Li, Meilin, Cui, Jeeeun Kim, Xiang 'Anthony' Chen. Romeo: A Design Tool for Embedding Transformable Parts in 3D [4] Models to Robotically Augment Default Functionality. Proc. ACM UIST 2020.
- Jiahao "Nick" Li, Jeeeun Kim, Xiang 'Anthony' Chen. Robiot: A Design Tool for Actuating Everyday Objects with Automatically [3] Generated 3D Printable Mechanisms. Proc. ACM UIST 2019.

PRFPRINTS

- Zhaoliang Zheng, Jiahao "Nick" Li, Parth Agrawal, Ethan Uetrecht, Zhao Lei, Joseph Prince Mathew, Dinesh Kumar Karri, Ankur [2] Mehta. User Design Parameters Based Design and Evaluation System for Indoor Airships. Arxiv.
- Erva Ulu, Nurcan Gecer Ulu, Jiahao "Nick" Li and Walter Hsiao. Curvy: An Interactive Design Tool for Varying Density Support [1] Structures. Arxiv.

POSTER & EXTENDED ABSTRACT & WORKSHOP

MARCH 11, 2023

- [W3] Jiahao "Nick" Li, Meilin, Cui, Jeeeun Kim, Xiang 'Anthony' Chen. Romeo: A Design Tool for Embedding Transformable Parts in 3D Models to Robotically Augment Default Functionality. Demo at ACM UIST 2020 and Poster at ACM UIST 2022.
- [W2] Jiahao "Nick" Li, Jeeeun Kim, Xiang 'Anthony' Chen. Robiot: A Design Tool for Actuating Everyday Objects with Automatically Generated 3D Printable Mechanisms. *Demo in ACM UIST 2019*.
- Ruolin Wang, Yuqi Tang, Hsuan Wei Fan, **Jiahao "Nick" Li**, Xiang 'Anthony' Chen. AuxiScope: Improving Awareness Surroundings for People with Tunnel Vision. *UIST Student Innovation Competition*, *October 2019*.

Professional Experience ______

Meta Reality Labs
Toronto, Canada

Research Intern Dec 2022 - Apr 2023 (expected)

• Research Mentor: Tovi Grossman

· Working on topics related to multimodal interaction in Augmented Reality.

Igarashi Lab at University of Tokyo

Tokyo, Japan

Jun 2022 - Oct 2022

Jun 2021 - Sep 2021

• Faculty Supervisor: Takeo Igarashi, Collaborators: Koji Yatani, Hironori Yoshida

• Worked on a project utilizing robotic arm for the data collection for object 6D pose estimation tasks.

Adobe Research Los Angeles (Remote), USA

Research Intern

Visiting Ph.D. Student

• Research Mentors: Li-Yi Wei, Rubaiat Habib Kazi, Stephen DiVerdi

• Worked on developing an interactive authoring tool for virtual-real object interaction.

PARC, A Xerox Company

Palo Alto, USA

Research Intern

Jun 2019 - Sep 2019

• Research Mentors: Erva Ulu, Nurcan Ulu

• Worked on developing a new type of supporting materials structure.

Press Coverage _____

| Robiot New Scientist, Turn any object into a robot using this program and a 3D printer. | 2019 |
|--|------|
| Hackster News, Robiot Is a Design Tool That Generates Mechanisms to Motorize Everyday Objects. | 2019 |
| Fabbaloo, Robiot Can Automatically Design Handy Household Machines. | 2019 |

Service____

Program Committee ACM CHI LBW 2020, 2021

Reviewer ACM UIST 2020-2022; ACM CHI 2020-2023

March 11, 2023 2