

## RESEARCH INTERESTS

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**Human-AI Interaction and Systems, Accessibility, AR/VR**

## EDUCATION

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### University of Michigan

Ph.D. in Computer Science and Engineering  
*Advisor: Anhong Guo - Human-AI Lab*

Ann Arbor, MI  
2021–2025 (Expected)

### Texas A&M University

M.S. in Computer Science and Engineering  
*Advisor: Jeeun Kim - HCI Engineering and Design Lab*  
*Thesis: An Interactive System to Support the Exploration and Measurement of Adaptive 3D Designs*

College Station, TX  
2019–2021

### The Ohio State University

B.S. in Computer Science and Engineering

Columbus, OH  
2015–2019

## AWARDS

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- **Best Demo**, Michigan AI Symposium 2023
- **Outstanding Graduate Student Instructors Award**, University of Michigan 2023
- **CSE Departmental Fellowship**, University of Michigan 2021–2022
- **Computer Science and Engineering Department Scholarship**, Texas A&M University 2020–2021

## PEER-REVIEWED CONFERENCE AND JOURNAL PAPERS

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1. **Chen Liang**, Yasha Iravantchi, Thomas Krolikowski, Ruijie Geng, Alanson Sample, and Anhong Guo. 2023. **BrushLens: Hardware Interaction Proxies for Accessible Touchscreen Interface Actuation**. In Proceedings of the 36th Annual ACM Symposium on User Interface Software and Technology (**UIST 2023**) [Acceptance Rate: 25.1%]
2. **Chen Liang**, Anhong Guo, and Jeeun Kim. 2022. **CustomizAR: Facilitating Interactive Exploration and Measurement of Adaptive 3D Designs**. In Proceedings of the 2022 ACM Conference on Designing Interactive Systems (**DIS 2022**) [Acceptance Rate: 23%]

## WORKSHOP PAPERS, EXTENDED ABSTRACTS, AND POSTERS

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1. Andi Xu, Mahdi Qazwini, **Chen Liang**, and Anhong Guo. 2023. Deploying VizLens: Characterizing User Needs, Preferences, and Challenges of Physical Interfaces Usage in the Wild. In Proceedings of the 25th International ACM SIGACCESS Conference on Computers and Accessibility (**ASSETS 2023**)
2. **Chen Liang** and Bobak Mortazavi. 2022. Evaluating Short Animation Videos in Asynchronous Teaching. In Proceedings of the 53rd ACM Technical Symposium on Computer Science Education V. 2 (**SIGCSE 2022**)
3. Nahyun Kwon, **Chen Liang**, Jeeun Kim. 2021. 3D4ALL: Toward an Inclusive Pipeline to Classify 3D Contents. In Proceedings of Workshop on Transparency and Explanations in Smart Systems (TESS Workshop on 26th International Conference on Intelligent User Interfaces (**IUI 2021**))

## PROFESSIONAL EXPERIENCE

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### SAIC Motor Co., Ltd.

*Internship, Advanced Technology Department (Mentor: Ke Liu)*  
Sensor fusion for autonomous driving

Shanghai, China  
Summer 2019

## PROJECT & COMPETITION EXPERIENCE

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### Indy Autonomous Challenge

*Member, Reveille Racing Team - Texas A&M University (Advisor: Dr. Ivan Damnjanovic)*  
Designed and implemented vehicle control algorithm for [the Simulation Race](#) (3rd Place).  
Software used: Ansys VRXPERIENCE Driving Simulator, SCADE, Python

2020-2021

### Robomaster Robotics Competition

*Graduate Team Advisor, Texas Aimbot - Texas A&M University (Advisor: Dr. Dezhen Song)*  
Advised undergraduate students on computer vision system design.

2020-2021

## SELECTED PRESS COVERAGE

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- **World Economic Forum** This smartphone tool helps people with visual disabilities use touchscreens 11/2023
- **Independent Living** BrushLens: Smartphone case workaround for touchscreens 11/2023
- **Hackster.io** Bring Your Own Accessibility 10/2023
- **University of Michigan News** New phone case provides workaround for inaccessible touch screens 10/2023
- **New Atlas** BrushLens tech could make touchscreen displays accessible to everyone 10/2023

## TEACHING & ADVISING

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### • Students Mentored

*Gerrard Choe (2023 Summer, Hand Gesture Collection in Mobile AR)*  
*Qiyuan Song (2023 Summer, Hand Gesture Collection in Mobile AR)*  
*Andi Xu (2023 Summer, VizLens Deployment)*

### • Teaching or Instructional Assistant:

*EECS 598 - Human-AI Interaction and Systems - Winter 2023*  
*EECS 593 - Human-Computer Interaction - Fall 2023*  
*CSCE 436: Human Computer Interaction - Spring 2020, Spring 2021*  
*CSE 3521: Introduction to Artificial Intelligence - Spring 2019*  
*CSE 2431: Introduction to Operating Systems - Spring, Summer, and Autumn 2018*

## SERVICE

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- **President**, Computer Science and Engineering Graduate Student Organization, University of Michigan 2023-2024
- **Organizer**, Michigan Interactive and Social Computing Group, University of Michigan 2023-2024
- **Poster Chair**, Michigan AI Symposium, University of Michigan 2022
- **Committee Member**, Academy of Future Faculty, Texas A&M University 2020-2021
- **PhD Admission Review**, Computer Science and Engineering, University of Michigan 2022-2024
- **Reviewer**
  - IEEE VR 2024, ACM CHI 2023, ACM UIST 2022 - 2023, ACM WWW 2023
- **Student Volunteer**
  - ACM UIST 2020 & 2023, ACM DIS 2022