

# XINYU SHI

Ph.D. Candidate in School of Computer Science, University of Waterloo

✉ xinyu.shi@uwaterloo.ca    🌐 <https://xinyu-shi.github.io/>

## Research Interests

Human-Centered AI, Human-Computer Interaction, Creativity Support Tools

## Education

- 2021 – 2026    **Ph.D. in Computer Science**  
(Expected)    University of Waterloo, Canada  
Advisor: [Jian Zhao](#)
- 2016 – 2020    **B.Eng. in Software Engineering**  
Xiamen University, China

## Publications

- 🏆 Best Paper Award (top 1%)  
🏅 Best Paper Honorable Mention or Oral Presentation (top 5%)  
\* Equal Contribution

### Peer-reviewed Full-length Conference and Journal Papers

---

- 2024 [P.6]    **Xinyu Shi**, Yinghou Wang, Yun Wang, Jian Zhao. Piet: Facilitating Color Authoring for Motion Graphics Video. In *Proceedings of the ACM CHI Conference on Human Factors in Computing Systems (CHI 2024)*. <https://doi.org/10.1145/3613904.3642711>  
🏆 **Best Paper Award (top 1%)**.
- 2024 [P.5]    **Xinyu Shi**, Mingyu Liu, Ziqi Zhou, Ali Neshati, Ryan Rossi, Jian Zhao. Exploring Interactive Color Palettes for Abstraction-Driven Exploratory Image Colorization. In *Proceedings of the ACM CHI Conference on Human Factors in Computing Systems (CHI 2024)*. <https://doi.org/10.1145/3613904.3642223>
- 2023 [P.4]    **Xinyu Shi**, Ziqi Zhou, Julia Zhang, Ali Neshati, Anjul Kumar Tyagi, Ryan Rossi, Shunan Guo, Fan Du, Jian Zhao. De-Stijl: Facilitating Graphics Design with Interactive 2D Color Palette Recommendation. In *Proceedings of the ACM CHI Conference on Human Factors in Computing Systems (CHI 2023)*. <https://dl.acm.org/doi/10.1145/3544548.3581070>
- 2022 [P.3]    Chaofeng Chen\*, **Xinyu Shi**\*, Yipeng Qin, Xiaoming Li, Xiaoguang Han, Tao Yang, Shihui Guo. Real-World Blind Super-Resolution via Feature Matching with Implicit High-Resolution Priors. In *Proceedings of the ACM International Conference on Multimedia (MM 2022)*. <https://dl.acm.org/doi/abs/10.1145/3503161.3547833>  
🏅 **Oral Presentation (top 5%)**.
- 2020 [P.2]    Qijia Shao, Amy Sniffen, Julien Blanchet, Megan E. Hillis, **Xinyu Shi**, Themistoklis K. Haris, Jason Liu, Melissa Malzkuhn, Lorna C. Quandt, James Mahoney, David J.M. Kraemer, Xia Zhou, Devin Balkcom. Teaching American Sign Language in Mixed Reality. In *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT 2020)*. Presented at UbiComp 2021. <https://dl.acm.org/doi/10.1145/3432211>

- 2019 [P.1] **Xinyu Shi\***, Junjun Pan\*, Zeyong Hu, Juncong Lin, Shihui Guo, Minghong Liao, Ye Pan, Ligang Liu. Accurate and Fast Classification of Foot Gestures for Virtual Locomotion. *In Proceedings of the IEEE International Symposium on Mixed and Augmented Reality (ISMAR 2019)*. <https://ieeexplore.ieee.org/document/8943618>

### Manuscript and On-going Work

---

- 2024 [M.1] **Xinyu Shi**, Yinghou Wang, Ryan Rossi, Jian Zhao. Duplo: Enabling Expressive Design Intent Specification through Direct Manipulation on Design Tokens. *Under Review*.

## Professional Experience

- Summer 2024 **Adobe Research**, San Jose, CA, US  
Research Scientist Intern  
Mentors: [Shunan Guo](#), [Jane Hoffswell](#), [Gromit Chan](#), [Eunyee Koh](#)  
Topic: creative generative AI-powered design tools.
- Summer 2023 **Microsoft Research Asia**, Beijing, China  
Research Scientist Intern  
Mentor: [Yun Wang](#).  
Designed and developed a color authoring tool for motion graphics video.
- Fall 2020 – Summer 2021 **The Chinese University of Hong Kong, Shenzhen**, Shenzhen, China  
Research Assistant  
Advisor: [Xiaoguang Han](#).  
Proposed an approach based on VQ-GAN for Image Super-Resolution.
- Fall 2019 – Winter 2020 **Dartmouth College**, Hanover, NH, US  
Research Assistant  
Advisors: [Xia Zhou](#), [Xing-Dong Yang](#).  
Leveraged wearable devices & Mixed Reality for Sign-Language teaching.

## Awards and Honors

- 2024 Best Paper Award, ACM CHI
- 2022 – 2024 International Doctoral Student Award, University of Waterloo
- 2021 Vector Scholarship in AI, Vector Institute
- 2021 – 2022 Mathematics International Master's Award of Excellence, University of Waterloo
- 2016 – 2020 Award for Excellence in Academic Performance, Xiamen University

## Academic Services

### Paper Review

- 2024 – 2025 SIGCHI Conference on Human Factors in Computing Systems (CHI)
- 2024 ACM User Interface Software and Technology Symposium (UIST)
- 2024 IEEE Visualization and Visual Analytics Conference (VIS)
- 2024 SIGCHI Late Breaking Work (CHI LBW)
- 2024 ACM Conference on Designing Interactive Systems (DIS)
- 2024 Computers & Graphics (C&C)