

XINYU SHI

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

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Research Interests

Human-Computer Interaction, Design Intelligence, 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)*.
🏆 **Best Paper Award.**
- 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)*.
- 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)*.
- 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)*.
🏅 **Oral Presentation.**
- 2020 [P.2] Qijia Shao, Amy Sniffen, Julien Blanchet, Megan E. Hillis, **Xinyu Shi**, Themistoklis K. Haris, Jason Liu, Melissa Malzkahn, 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.
- 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)*.

Professional Experience

Industry Research Experience

- Summer 2024 **Adobe Research**, San Jose, USA
Research Intern
Mentors: [Eunye Koh](#), [Jane Hoffswell](#), [Shunan Guo](#), [Gromit Chan](#), [Chang Xiao](#),
and [Victor S. Bursztyn](#).
Topic: creative design tools.
- Summer 2023 **Microsoft Research Asia**, Beijing, China
Research Intern
Mentor: [Yun Wang](#).
Designed and developed a color authoring tool for motion graphics video. [P.6]

Academia Research Experience

- Fall 2021 – Present **University of Waterloo**, Waterloo, Canada
Graduate Student Researcher
Advisor: [Jian Zhao](#).
Design, develop, and evaluate interactive systems to augment creativity. [P.4, P.5]
- 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. [P.3]
- Fall 2019 – Winter 2020 **Dartmouth College**, Hanover, USA
Research Assistant
Advisors: [Xia Zhou](#) and [Xing-Dong Yang](#).
Leveraged wearable devices & Mixed Reality for Sign-Language teaching. [P.2]
- Fall 2017 – Summer 2019 **Xiamen University**, Xiamen, China
Undergraduate Research Assistant
Advisor: [Shihui Guo](#).
Exploited wearable devices for VR locomotion with gesture recognition. [P.1]

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

Services

Paper Review

- 2024 CHI (×3), CHI LBW (×3), DIS (×1), C&C (×1), VIS (×1), UIST (×1)

Technical Skills

- Programming Python, HTML/CSS/JavaScript, C/C++, Java
- Framework PyTorch, React.js, Flask