

Xinyu Shi

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

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<https://xinyu-shi.github.io/>

Research Interests

Human-Computer Interaction, Design Intelligence, Creativity Support Tools

Education

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|------------------------|---|
| Sept. 2021 – Present | University of Waterloo – Waterloo, Canada
Ph.D. in Computer Science
Advisor: Prof. Jian Zhao |
| Sept. 2016 – Jun. 2020 | Xiamen University – Xiamen, China
B.Eng. in Software Engineering
Advisor: Prof. Shihui Guo |

Publications

- C.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 2023 CHI Conference on Human Factors in Computing Systems (CHI 2023)*.
- C.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 30th ACM International Conference on Multimedia (MM 2022)*. **Oral (Top 5%)**.
- C.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 (Ubicomp 2021)*.
- C.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 2019 IEEE International Symposium on Mixed and Augmented Reality (ISMAR 2019)*.

Manuscripts

- M.2 **Xinyu Shi**, Yinghou Wang, Yun Wang, Jian Zhao. Piet: Facilitating Color Authoring for Motion Graphics Video. *Under Review at CHI 2024*.
- M.1 **Xinyu Shi**, Mingyu Liu, Ziqi Zhou, Ali Neshati, Ryan Rossi, Jian Zhao. Exploring Interactive Color Palettes for Abstraction-Driven Exploratory Image Colorization. *Under Review at CHI 2024*.

Professional Experience

- Sept. 2021 – **University of Waterloo**, Waterloo, Canada
Present Graduate Research Student
Advisor: Prof. Jian Zhao.
Design, develop, and evaluate interactive systems to augment creativity.
- May 2023 – **Microsoft Research Asia**, Beijing, China
Sept. 2023 Research Intern
Mentor: Dr. Yun Wang.
Designed and developed a color authoring tool for motion graphics video.
- Dec. 2020 – **The Chinese University of Hong Kong, Shenzhen**, Shenzhen, China
Aug. 2021 Research Assistant
Advisor: Prof. Xiaoguang Han.
Proposed an approach based on VQ-GAN for Image Super-Resolution.
- Sept. 2019 – **Dartmouth College**, Hanover, USA
Apr. 2020 Research Assistant
Advisors: Prof. Xia Zhou and Prof. Xing-Dong Yang.
Leveraged wearable devices & Mixed Reality for Sign-Language teaching.
- Sept. 2017 – **Xiamen University**, Xiamen, China
Aug. 2020 Undergraduate Research Assistant
Advisor: Prof. Shihui Guo.
Exploited wearable devices for VR locomotion with gesture recognition.

Honors and Scholarships

- 2022-2023 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)