

# 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

2021 – 2026 **University of Waterloo** – Waterloo, Canada

(Expected) Ph.D. in Computer Science

Advisor: Prof. Jian Zhao


2016 – 2020 **Xiamen University** – Xiamen, China

B.Eng. in Software Engineering

Advisor: Prof. Shihui Guo

## Publications

### FULL CONFERENCE AND JOURNAL PAPERS (C)

- 2024 [C.6] **Xinyu Shi**, Yinghou Wang, Yun Wang, Jian Zhao. [Piet: Facilitating Color Authoring for Motion Graphics Video](#). *Conditionally Accepted by 2024 CHI Conference on Human Factors in Computing Systems (CHI 2024)*.
- 2024 [C.5] **Xinyu Shi**, Mingyu Liu, Ziqi Zhou, Ali Neshati, Ryan Rossi, Jian Zhao. [Exploring Interactive Color Palettes for Abstraction-Driven Exploratory Image Colorization](#). *Conditionally Accepted by 2024 CHI Conference on Human Factors in Computing Systems (CHI 2024)*.
- 2023 [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)*.
-  2022 [C.3] Chaofeng Chen\*, **Xinyu Shi**\*, Yipeng Qin, Xiaoming Li, Xiaoguang Han, Tao Yang, Shihui Guo (\* indicates equal contributions). [Real-World Blind Super-Resolution via Feature Matching with Implicit High-Resolution Priors](#). *In Proceedings of the 2022 ACM International Conference on Multimedia (MM 2022)*.  
**Oral Presentation (Top 5% of all submissions)**

- 2020 [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 (IMWUT 2020)*. Presented at UbiComp 2021.
- 2019 [C.1] **Xinyu Shi\***, Junjun Pan\*, Zeyong Hu, Juncong Lin, Shihui Guo, Minghong Liao, Ye Pan, Ligang Liu (\* indicates equal contributions). [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)*.

## Professional Experience

- Summer 2023 **Microsoft Research Asia**, Beijing, China  
 Research Intern  
 Mentor: [Yun Wang](#).  
 Designed and developed a color authoring tool for motion graphics video. [C.6]
- Fall 2021 – Present **University of Waterloo**, Waterloo, Canada  
 Graduate Student Researcher  
 Advisor: [Jian Zhao](#).  
 Design, develop, and evaluate interactive systems to augment creativity. [C.4, C.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. [C.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. [C.2]
- Fall 2017 – Summer 2019 **Xiamen University**, Xiamen, China  
 Undergraduate Research Assistant  
 Advisor: [Shihui Guo](#).  
 Exploited wearable devices for VR locomotion with gesture recognition. [C.1]

## Awards and Honors

- 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)

## Technical Skills

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