

PUQI ZHOU

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RESEARCH INTERESTS

My research interests **Human-Computer Interaction, Human-Robot Interaction, Computer Vision, Robotics**, and **Mixed Reality** to support domain experts in high-stakes, time-critical environments through multi-robot systems. This is **important** because multi-robot systems have the potential to transform public safety, disaster response, and other high-stakes domains. However, this is **difficult** because humans and robots often operate with different situational awareness and contextual understanding, making seamless task communication and coordination a persistent challenge.

EDUCATION

Ph.D.	George Mason University (GMU), Fairfax, VA, USA Computer Science Advisor: Sungsoo Ray Hong & David Porfirio	2021–present
B.Eng.	University College Dublin (UCD), Dublin, Ireland Beijing University of Technology (BJUT), Beijing, China Dual Degree in Electronic and Information Engineering Merit Student (Top 5%), Outstanding Student Cadre (Top 5%)	2017–2021

PUBLICATION

CHI	Zhou, P. , Asgarov, A., Hussian, A., Park, W., Paudyal, A., Shrestha, S., Tang, C., Lighthiser, M., Hieb, M., Xiao, X., Thomas, C., Hong, S. (2026, April). Designing Multi-Robot Ground Video Sensemaking with Public Safety Professionals. In Proceedings of the 2026 CHI Conference on Human Factors in Computing Systems. ACM.	Acceptance rate: 25.3%
Mobisys	Wu, N., Liu, K., Cheng, R., Han, B., Zhou, P. (2024, June). Theia: Gaze-driven and perception-aware volumetric content delivery for mixed reality headsets. In Proceedings of the 22nd Annual International Conference on Mobile Systems, Applications and Services (pp. 70-84). ACM.	Acceptance rate: 21%
Mobicom	Liu, Y., Zhou, P. , Zhang, Z., Zhang, A., Han, B., Li, Z., Qian, F. (2024, May). Muv2: scaling up multi-user mobile volumetric video streaming via content hybridization and sharing. In Proceedings of the 30th Annual International Conference on Mobile Computing and Networking (pp. 327-341). ACM.	Acceptance rate: 19.09%
CHI	Jin, Q., Liu, Y., Sun, R., Chen, C., Zhou, P. , Han, B., Qian, F., Yarosh, S. (2023, April). Collaborative online learning with vr video: Roles of collaborative tools and shared video control. In Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (pp. 1-18). ACM.	Acceptance rate: 24%
VRW	Jin, Q., Liu, Y., Zhou, P. , Han, B., Yarosh, S., Qian, F. (2023, March). Volumivive: An authoring system for adding interactivity to volumetric video. In 2023 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW) (pp. 569-570). IEEE.	
Sensys	Zhang, D., Zhou, P. , Han, B., Pathak, P. (2022, November). M5: Facilitating multi-user volumetric content delivery with multi-lobe multicast over mmWave. In Proceedings of the 20th ACM Conference on Embedded Networked Sensor Systems (pp. 31-46). ACM.	Acceptance rate: 28%

RESEARCH EXPERIENCE

George Mason University (GMU)

Ph.D. Student

08/2023–Present

Department of Computer Science

Advisors: Prof. Sungsoo (Ray) Hong, Prof. Chris Thomas, Prof. Xuesu Xiao

Projects: Multi-Ground Robots Video Sensemaking for Public Safety

Multi-Ground Robots Deploy in Urban Lost Person Search for Public Safety

George Mason University (GMU)

Ph.D. Student

09/2025–Present

Department of Computer Science

Advisors: Prof. David Porfirio

Projects: Robot Adaptive Task Planning based on Human Attention

University College Dublin (UCD)

Research Assistant

09/2020–07/2021

Advisor: Prof. Xingqi Zhang

Project: Indoor Wireless Positioning

Beijing University of Technology (BJUT)

Research Assistant

08/2019–06/2021

Advisor: Prof. Yong Zhang

Project: Image Recognition App for Campus

TEACHING EXPERIENCE

Teaching Assistant, GMU

CS 551, Computer Graphics.

Fall 2023, Spring 2024, Fall 2025

CS 695, Immersive Computing.

Spring 2023

CS 600, Theory of Computation.

Spring 2026

MENTORSHIP

Darsh Shetty (2025-present)—*Academy of Engineering and Technology*

Karthik Nutulapati (2024-present)—*GMU*

Wonjoon Park (2024-2025)—*UMD*

ACADEMIC SERVICE

Referee Service

CHI - ACM Conference on Human Factors in Computing Systems

2023, 2025, 2026

IUI - ACM Conference on Intelligent User Interfaces

2026

CSCW - ACM SIGCHI Conference on Computer-Supported Cooperative Work & Social Computing

2025

Event Organization

ACM Conference on Embedded Networked Sensor Systems (Sensys) Networking Networking Women

2022

Organizer

TECHNICAL SKILLS

Programming Languages

Python, Java, JavaScript, HTML, CSS, C#, C, PDDL

Robotics Tools, Libraries, Frameworks and Platforms

ROS2, Mujoco Simulator, OpenCV, Unity Game Engine, Hello-Robot Stretch 3, Frodo Robot