Education

University of Shanghai for Science and Technology

Sept 2021 – Jun 2025 (Expected)

Bachelor's Degree in Intelligence Science and Technology

Shanghai, China

• GPA: 3.52/4.00, **Major GPA**: 3.89/4.00

Publications

- 1. Xing, Yunhao, Que Liu, Jingwu Wang, and Diego Gomez-Zara. "SMoRe: Enhancing Object Manipulation and Organization in Mixed Reality Spaces with LLMs and Generative AI." arXiv [Cs.HC], 2024. Available at: http://arxiv.org/abs/2411.11752.
- 2. Muhammad Salman Abid, Mrigank Pawagi, Sugam Adhikari, Xuyan Cheng, Ryed Badr, Md Wahiduzzaman, Vedant Rathi, Ronghui Qi, Choiyin Li, Lu Liu, Rohit Sai Naidu, Licheng Lin, Que Liu, Asif Zubayer Palak, Mehzabin Haque, Xinyu Chen, Darko Marinov, and Saikat Dutta. "GlueTest: Testing Code Translation via Language Interoperability." In Proceedings of the 40th International Conference on Software Maintenance and Evolution (ICSME'24) NIER Track, 2024.

Relevant Course

- Machine Vision (92)
- Autonomous Mobile Robots (98)

- Machine Learning (93)
- Robot Vision System and Measurement (92)

Research Experience

Robot Position Data Transformation and Communication

Nov 2024 - Present

Graduation Thesis supervised by Prof. Dongxiang Fu

University of Shanghai for Science and Technology

- Designed and implemented position data transformation across static and dynamic coordinate frames in ROS (Robot Operating System), drawing inspiration from multi-task communication and kinematics applications.
- Developed multi-node communication protocols within a distributed robotics framework using C++.

Human-Computer Interaction Research Group

Jul 2024 - Present

Undergraduate Researcher supervised by Prof. Diego Gómez-Zará

University of Notre Dame

- Integrated depth camera with visual SLAM (Simultaneous Localization and Mapping) on ROS to achieve scene understanding and environmental mapping in mixed reality setups.
- Developed a VR meeting room prototype using Unity and Photon Networking to create multi-user, immersive environments, improving virtual collaboration in distributed teams.
- Leveraged the Generative AI and Large Language Models for better scene understanding and object manipulation of users in mixed reality applications.

Summer Undergraduate Research in Software Engineering

Aug 2023 – Jan 2024

Remote Undergraduate Researcher supervised by Prof. Darko Marinov

University of Illinois Urbana-Champaign

- Assisted in establishing a pipeline of clients libraries for testing compatibility and stability of client integrations to validate the partial translation.
- Leveraged Linux environments for efficient development, utilizing Docker containers for consistent development setups and scaling applications. Utilized GitHub for team collaboration and code review.
- Modified and optimized XML configuration files for better modularity and compatibility across multiple Maven-based Java projects.

School Of Computing Summer Workshop

Jul 2023

Visiting Student

National University of Singapore

• Developed a 2D game from scratch within a 3-week timeframe and acquired proficiency in Unity and C#.

Skills

Programming: Python, C#, C, C++, Java, Matlab, SQL **Tools and Frameworks**: ROS, Unity, Docker, Git, PyTorch

Engineering: RealSense, Altium, Keil

Languages: English (TOEFL: 106), French (intermediate), Chinese (native)