

# Zhengjie Xu

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## EDUCATION

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2023 - present    **Ph.D. in Computer Science** at **University of Michigan, Ann Arbor**  
Advised by Prof. Stella X. Yu

2021 - 2023      **M.S.E. in Computer Science** at **University of Pennsylvania**  
*GPA: 4.0/4.0*

2017 - 2020      **B.S. in Computer Engineering, Applied Mathematics** at **UCSD**  
*Cumulative GPA: 3.8/4.0, Major GPA: 3.9/4.0*

## RESEARCH INTEREST

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I am interested in building robotics system that can safely and adaptively perceive and interact with the real world, utilizing motion and inference cues from human experiences.

**Research Area:** Computer Vision, Robotics

## RESEARCH EXPERIENCE

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**Research Assistant @ UM** Aug 2023 - Present  
Advised by: Prof. Stella X. Yu

**Research Assistant @ UPenn** Jan 2022 - May 2023  
Advised by: Prof. Jianbo Shi

**Research Assistant @ UCSD** Jan 2019 - Aug 2021  
Worked with Prof. Hao Su, Prof. Garrison W. Cottrell and Dr. Mai H. Nguyen

## PUBLICATIONS

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- [1] Y. Li, **Zhengjie Xu**, and S. Yu, Visual-Motor Reflection-Equivariant Learning for Humanoid Whole-Body Locomotion, in *Submission*, 2025.
- [2] **Zhengjie Xu**, Y. Li, K. Lin, and S. Yu, Unified Humanoid Fall-Safety Policy from a Few Demonstrations, in *Submission*, 2025. [[pdf](#)].
- [3] L. Zhang, **Zhengjie Xu**<sup>\*</sup>, C. Barnes, Y. Zhou, Q. Liu, H. Zhang, S. Amirghodsi, Z. Lin, E. Shechtman, and J. Shi, Perceptual Artifacts Localization for Image Synthesis Tasks, in *Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV)*, 2023. [[pdf](#)].
- [4] L. Zhornyak, **Zhengjie Xu**<sup>\*</sup>, H. Tang<sup>\*</sup>, and J. Shi, HashEncoding: Autoencoding with Multiscale Coordinate Hashing, 2022. [[pdf](#)].
- [5] **Zhengjie Xu**, Z. Zhou, G. W. Cottrell, and M. H. Nguyen, Generalization in Cardiac Image Segmentation, in *2021 IEEE International Conference on Big Data (Big Data)*, 2021. [[pdf](#)].

## TEACHING EXPERIENCE

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**GSI for CSE 442 @ UM** Jan 2025 - May 2025  
CSE 442: Computer Vision

**GSI for CSE 542 @ UM**

Aug 2024 - Dec 2024

CSE 542: Advanced Topics in Computer Vision

**TA for CIS 6800 @ UPenn**

Aug 2022 - Dec 2022

CIS 6800: Advanced Topics in Machine Perception

**Tutor for CSE 11 @ UCSD**

Apr 2018 - Jun 2018

CSE 11: Introduction to Programming and Computational Problem-Solving

## SKILLS

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**Software & Libraries** PyTorch, IsaacGym, IsaacSim, OpenCV, Open3D, Blender, cvxpy, L<sup>A</sup>T<sub>E</sub>X