Huijie ZHANG

GRADUATE STUDENT IN UNIVERSITY OF MICHIGAN, ANN ARBOR

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Education

University of Michigan, Ann Arbor (Umich) *Ann Arbor, U.S.*

PH.D. IN ELECTRICAL AND COMPUTER ENGINEERING *Sep.2023 - Jun.2027(Expected)*

- GPA:4.0/4.0

University of Michigan, Ann Arbor (Umich) *Ann Arbor, U.S.*

M.S.E IN MECHANICAL ENGINEERING & ELECTRICAL AND COMPUTER ENGINEERING *Sep.2020 - Dec.2022(Expected)*

- GPA:4.0/4.0

Huazhong University of Science and Technology (HUST) *Wuhan, China*

B.S. IN MECHANICAL ENGINEERING *Sep.2016 - Jun.2020*

- GPA:3.9/4.0 (90.06/100)

Publications

CONFERENCE PROCEEDINGS

Exploring Low-Dimensional Subspaces in Diffusion Models for Controllable Image Editing
  Siyi Chen*, **Huijie, Zhang***, Minzhe Guo, Yifu Lu, Peng Wang, Qing Qu
  Thirty-eighth Annual Conference on Neural Information Processing Systems (NeurIPS2024) *Vancouver, Canada*
  2024

Improving Efficiency of Diffusion Models via Multi-Stage Framework and Tailored Multi-Decoder Architectures
  Huijie, Zhang*, Yifu Lu*, Ismail Alkhouri, Saiprasad Ravishankar, Dogyoon Song, Qing Qu
  Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR2024) *Seattle, U.S.*
  URL: `https://arxiv.org/abs/2312.09181` *2024*

The Emergence of Reproducibility and Consistency in Diffusion Models
  Huijie, Zhang*, Jinfan Zhou*, Yifu Lu, Minzhe Guo, Peng Wang, Liyue Shen, Qing Qu
  Forty-first International Conference on Machine Learning (ICML2024) *Vienna, Austria*
  URL: `https://arxiv.org/abs/2310.05264` *2024*

ProgressLabeller: Visual Data Stream Annotation for Training Object-Centric 3D Perception
  Xiaotong Chen, **Zhang, Huijie**, Zeren Yu, Stanley Lewis, Odest Chadwicke Jenkins
  The 2022 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2022) *Kyoto, Japan*
  URL: `https://arxiv.org/pdf/2203.00283.pdf` *2022*

ClearPose: Large-scale Transparent Object Dataset and Benchmark
  Xiaotong Chen, **Zhang, Huijie**, Zeren Yu, Anthony Opipari, Odest Chadwicke Jenkins
  Proceedings of the 17th European Conference on Computer Vision (ECCV 2022) *Tel-Aviv, Israel*
  URL: `https://arxiv.org/pdf/2203.03890.pdf` *2022*

PREPRINTS

Diffusion Model Learns Low-Dimensional Distributions via Subspace Clustering
  Peng Wang*, **Huijie, Zhang***, Zekai Zhang, Siyi Chen, Yi Ma, Qing Qu
  In submission to 13th International Conference on Learning Representations (ICLR2025) *Singapore, Singapore*
  2024

Presentation

2024	**Poster Presentation**, ICML 2024	*Vienna, Austria*
2024	**Poster Presentation**, CVPR 2024	*Seattle, U.S.*
2024	**Oral Presentation**, Beijing Academy of Artificial Intelligence	*Beijing, China*
2023	**Oral Presentation**, NeurIPS workshop	*New Orleans, U.S.*

Honors & News

2024	**News reported by Umich ECE department**, link	*Ann Arbor, U.S.*
2023	**Best paper award**, NeurIPS workshop	*New Orleans, U.S.*
2023	**Ph.D. scholarship**, Umich	*Ann Arbor, U.S.*

Work Experience

Sep. 2024 - Dec. 2024	**Graduate Student Instructor,** EECS 453, University of Michigan, Ann Arbor	*Ann Arbor, U.S.*
Aug. 2024	**High School Summer Camp Instructor,** AI Magic	*Ann Arbor, U.S.*
Sep. 2022 - Jun. 2023	**Graduate Student Research Assistant,** Advised by Prof. Qing Qu, University of Michigan, Ann Arbor	*Ann Arbor, U.S.*
Jan. 2023 - Apr. 2023	**Research Associate,** ROB 498-002 & 599-009, University of Michigan, Ann Arbor	*Ann Arbor, U.S.*
Jun. 2021 - Sep. 2022	**Graduate Student Research Assistant,** Advised by Prof. Chad Jenkins, University of Michigan, Ann Arbor	*Ann Arbor, U.S.*