

Hui Shen

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Education

University of Michigan, Ph.D. Student in Computer Science	Sep.2025 - ?
The Ohio State University, B.S. in Computer & Information Science	Graduated in Dec.2024
• GPA: 3.95/4.0, Major GPA: 4.0/4.0, Summa Cum Laude	

Research Interest

Fields: Generative Models, Efficient AI, Machine Learning Systems

Publications & Manuscripts

Famba-V: Fast Vision Mamba with Cross-Layer Token Fusion

Hui Shen, Zhongwei Wan, Xin Wang, Mi Zhang

ECCV 2024 The Fourth Workshop on Computational Aspects of Deep Learning (Best Paper Award)

Artificial Intelligence of Things: A Survey

Shakhrul Iman Siam, Hyunho Ahn, Li Liu, Samiul Alam, *Hui Shen*, Zhichao Cao, Bhaskar Krishnamachari, Mani Srivastava, Mi Zhang

ACM Transactions on Sensor Networks

FedAIoT: A Federated Learning Benchmark for Artificial Intelligence of Things

Samiul Alam, Tuo Zhang, Tiantian Feng, *Hui Shen*, Zhichao Cao, Dong Zhao, JeongGil Ko, Kiran Somasundaram, Shrikanth S Narayanan, Salman Avestimehr, Mi Zhang

Journal of Data-centric Machine Learning Research

MEDA: Dynamic KV Cache Allocation for Efficient Multimodal Long-Context Inference

Zhongwei Wan, *Hui Shen*, Xin Wang, Mi Zhang

NAACL 2025

SVD-LLM V2: Optimizing Singular Value Truncation for Large Language Model Compression

Xin Wang, Samiul Alam, Zhongwei Wan, *Hui Shen*, Mi Zhang

NAACL 2025

Efficient Diffusion Models: A Survey

Hui Shen, Jingxuan Zhang, Boning Xiong, Rui Hu, Shoufa Chen, Zhongwei Wan, Xin Wang, Yu Zhang, Zixuan Gong, Guangyin Bao, Chaofan Tao, Yongfeng Huang, Ye Yuan, Mi Zhang

Submitted to TMLR, under review.

MEIT: Multi-Modal Electrocardiogram Instruction Tuning on Large Language Models for Report Generation

Zhongwei Wan, Che Liu, Xin Wang, Chaofan Tao, *Hui Shen*, Zhenwu Peng, Jie Fu, Rossella Arcucci, Huaxiu Yao, Mi Zhang

Submitted to ACL 2025, under review.

Benchmarking and Boosting Radiology Report Generation for 3D High-Resolution Medical Images

Che Liu, Zhongwei Wan, Yuqi Wang, *Hui Shen*, Haozhe Wang, Kangyu Zheng, Mi Zhang, Rossella Arcucci

Submitted to ACL 2025, under review.

Autoregressive Models in Vision: A Survey

Jing Xiong, Gongye Liu, Lun Huang, Chengyue Wu, Taiqiang Wu, Yao Mu, Yuan Yao, *Hui Shen*, Zhongwei Wan, Jinfa Huang, Chaofan Tao, Shen Yan, Huaxiu Yao, Lingpeng Kong, Hongxia Yang, Mi Zhang, Guillermo Sapiro, Jiebo Luo, Ping Luo, Ngai Wong

Submitted to TMLR, under review.

Research Experience

Research Assistant , Advisor: Prof. Ngai Wong <i>Next Gen AI Lab, Department of Electrical and Electronic Engineering</i> The University of Hong Kong , Hong Kong, China	Jan, 2025 – Present
Research Assistant , Advisor: Prof. Mi Zhang <i>AIoT and Machine Learning Systems Lab, Department of Computer Science and Engineering</i> The Ohio State University , OH, USA	Apr, 2023 – Dec, 2024
Research Assistant , Advisor: Prof. Jingbo Meng <i>Computational and Statistical Models Group, School of Communication</i> The Ohio State University , OH, USA	Sep, 2023 – Sep, 2024
Project: Exploring the role of generative AI on human-human interactions in online social networks for social support	
<ul style="list-style-type: none">Developed a GPT-4-based bot designed to interact in online social networks where users seek support for various personal challenges such as bullying, heartbreak, and financial distressInvestigated the impact of AI-powered interactions on human behavior and support dynamics within online social networks, analyzing how the presence of a generative AI bot influences user responses and overall community support	

Teaching Experience

The Ohio State University , OH, USA	
Teaching Assistant <i>Systems II: Introduction to Operating Systems (CSE 2431)</i>	Aug, 2024 – Dec, 2024
Teaching Assistant <i>Introduction to Digital Logic (ECE 2060)</i>	Aug, 2024 – Dec, 2024

Work Experience

Software Engineering Intern , Swire Coca-Cola China – Hangzhou	June, 2022 – Aug, 2022
<ul style="list-style-type: none">Developed Python scripts and implement Robotic Process Automation (RPA) to streamline workflows for various departments within the company.	
Co-founder , Bridge Path Education – Hangzhou	May, 2024 – Present
<ul style="list-style-type: none">Founded and managed an international student transfer consultancy, helping college students pursue educational opportunities abroad.Generated significant revenue, achieving profits in the tens of thousands of dollars.	

Award

Summa Cum Laude , The Ohio State University	2024
Best Paper Award in ECCV 2024 Workshop , NVIDIA	2024
Microsoft for Startups Founders Hub Member , Microsoft	2024

Skills

Programming Languages: Python, C/C++, Java, SQL, JavaScript, HTML/CSS, C#

Tools and Frameworks: Git, PyTorch, LaTeX, Markdown, Docker, React, Vue