

# Hui (Marcus) Shen

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## Education

<b>The Ohio State University (GPA: 3.9/4.0)</b>	Columbus, OH
Major in Computer & Information Science	01/2023 - Present
<b>Zhejiang University</b>	Hangzhou, China
Major in Computer Science & Technology (Transfer Out)	06/2022 - 12/2022
<b>Hangzhou City University</b>	Hangzhou, China
Major in Computer Science & Technology (Transfer Out)	06/2020 - 06/2022

## Publications

### P1 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.

*arXiv preprint arXiv:2310.00109.*

### P2 Artificial Intelligence of Things: A Survey

Shakhrul Iman Siam, Hyunho Ahn, Li Liu, Samiul Alam, [Hui Shen](#), Zhichao Cao, Bhaskar Krish-namachari, Mani Srivastava, and Mi Zhang.

*Under review*

### P3 Electrocardiogram Instruction Tuning for Report Generation

Zhongwei Wan, Che Liu, Xin Wang, Chaofan Tao, [Hui Shen](#), Zhenwu Peng, Jie Fu, Rossella Arcucci, Huaxiu Yao, Mi Zhang.

*arXiv preprint arXiv:2403.04945.*

### P4 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.

*arXiv preprint arXiv:2406.07146.*

## Experience

<b>Research Assistant</b>	The Ohio State University	09/2023 - Present
<ul style="list-style-type: none"><li>◦ Advised by Prof. Jingbo Meng.</li><li>◦ Designed AI chatbots (with GPT4 model) for social support (i.e, supportive communication about advice and empathy).</li></ul>		
<b>Research Assistant</b>	The Ohio State University	04/2023 - Present
<ul style="list-style-type: none"><li>◦ Advised by Prof. Mi Zhang at AIoT and Machine Learning Systems Lab</li><li>◦ Assisted in the experimental component of FedAIoT, a federated learning benchmark for the Artificial Intelligence of Things. (see <a href="#">P1</a>)</li><li>◦ Conducted extensive research and thoroughly reviewed approximately 100 papers in mobile computing, contributing to the writing and table/figure design of the Mobile Computing section in Artificial Intelligence of Things: A Survey. (see <a href="#">P2</a>)</li><li>◦ Collaborated in the experimental and coding components of a research paper on electrocardiogram reports generation utilizing LLMs. (see <a href="#">P3</a>)</li><li>◦ Designed and developed our Research Group's website using React/JavaScript. (<a href="https://aiot-mlsys-lab.github.io/">https://aiot-mlsys-lab.github.io/</a>)</li></ul>		
<b>Information Technology Intern</b>	Swire Coca-Cola China	06/2022 - 08/2022
<ul style="list-style-type: none"><li>◦ Developed Python scripts to streamline workflows for various departments within the company.</li></ul>		
<b>Teaching Assistant</b>	Hangzhou City University	09/2021 - 01/2022
<ul style="list-style-type: none"><li>◦ TA in Introduction to Computer Science</li></ul>		

## Awards and Honors

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**Dean's List (SP23, SU23, AU23, SP24), The Ohio State University** 2023  
**Shaoxiang Wei Freshman Elite Scholarship, Hangzhou City University** 2020

## Skills

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**Programming Languages:** Python, Java, C, JavaScript/HTML/CSS

**Tools and Frameworks:** Git, PyTorch, Linux, React, LaTeX