





Hui Wei

 github.com/wll199566  [davidhuiwei.github.io](https://github.com/davidhuiwei)  [@HuiWei15](https://twitter.com/HuiWei15)  huiwei2@ucmerced.edu

EDUCATION

Electrical Engineering and Computer Science, University of California, Merced <i>Ph.D. student in Computer Science</i>	2025 - Present <i>GPA: 4.0/4.0</i>
Courant Institute of Mathematical Sciences, New York University <i>M.S. in Computer Science</i>	2017 - 2019 <i>GPA: 3.8/4.0</i>
Beijing University of Posts and Telecommunications <i>B.Eng. in Telecommunication Engineering</i>	2013 - 2017 <i>GPA: 3.8/4.0</i>

RESEARCH INTERESTS

Machine Learning, Large Language Models, Time Series, AI for Healthcare, AIoT.

RESEARCH EXPERIENCE

Research Scientist Intern <i>PAII.Inc (Ping An Technology North America Research Institute, Silicon Valley)</i>	05/2024 – 08/2024 <i>Palo Alto, CA</i>
<ul style="list-style-type: none">• Worked on systematic evaluation on LLM-as-a-Judge methodology with summarization and conversation tasks.• Worked on improving proximal policy optimization algorithms for better LLM alignment with human preferences.• One paper [4] was accepted by ICLR workshop on Building Trust on LLMs and LLM applications 2025 and one paper [3] was submitted to EMNLP 2025.	
Research Assistant <i>UMass Amherst</i>	09/2022 – 01/2024 <i>Amherst, MA</i>
<ul style="list-style-type: none">• Worked on a temporally sparse self-attention model to address the missing data problem in large-scale longitudinal physical activity data from the <i>All of Us</i> research program.• Worked on a variational auto-encoder model for irregularly sampled ICU data with various output distributions.• Worked on a reconstruction-based contrastive learning approach to improve the quality of time series encodings.• One paper [5] was accepted by CHIL 2024 and ICLR workshop on Learning from Time Series for Health 2024.• One paper [6] was accepted by ICLR 2024.	
Research Assistant <i>NYU Grossman School of Medicine</i>	02/2019 – 06/2020 <i>New York City, NY</i>
<ul style="list-style-type: none">• Worked on evaluation of diagnostic accuracy and fairness for Alzheimer's disease and Lewy body disease.• Worked on CNN, LSTM and Transformer-based models for disease onset prediction using NYU EHR data.• One paper [5] was accepted by the journal <i>Frontiers in Aging Neuroscience</i> 2023.	

PUBLICATIONS

* indicates equal contribution

1. Shangjie Du*, **Hui Wei***, Dong Yoon Lee, Zhizhang Hu, Shijia Pan. "Graph-Based Physics-Guided Urban PM2.5 Air Quality Imputation with Constrained Monitoring Data." *ACM Transactions on Sensor Networks (TOSN)*, 2025.
2. **Hui Wei**, Zihao Zhang, Shenghua He, Tian Xia, Shijia Pan, and Fei Liu. "PlanGenLLMs: A Modern Survey of LLM Planning Capabilities." *The 63rd Annual Meeting of the Association for Computational Linguistics (ACL)*, 2025.
3. Jingyang Lin, Andy Wong, Tian Xia, Shenghua He, **Hui Wei**, Mei Han, and Jiebo Luo. "Facilitating Long Context Understanding via Supervised Chain-of-Thought Reasoning." *arXiv preprint arXiv:2502.13127* (2025).
4. **Hui Wei***, Shenghua He*, Tian Xia, Andy Wong, Jingyang Lin, Mei Han. "Systematic Evaluation of LLM-as-a-Judge in LLM Alignment Tasks: Explainable Metrics and Diverse Prompt Templates." *Building Trust on LLMs and LLM applications Workshop, ICLR*, 2025.
5. **Hui Wei**, Maxwell A. Xu, Colin Samplawski, James M. Rehg, Santosh Kumar, Benjamin M. Marlin. "Temporally Multi-Scale Sparse Self-Attention for Physical Activity Data Imputation." *Conference on Health, Inference, and Learning (CHIL)*, PMLR, 2024.

6. Maxwell A. Xu, Alexander Moreno, **Hui Wei**, Benjamin M. Marlin, James M. Rehg. “Retrieval-Based Reconstruction for Time-series Contrastive Learning.” *The 12th International Conference on Learning Representations (ICLR)*, 2024.
7. **Hui Wei**, Arjun V. Masurkar, and Narges Razavian. “On Gaps of Clinical Diagnosis of Dementia Subtypes: A Study of Alzheimer’s Disease and Lewy Body Disease.” *Frontiers in Aging Neuroscience* 15 (2023): 1149036.

TEACHING EXPERIENCE

- Head Teaching Assistant, UMass Amherst** 09/2024 - 12/2024
COMPSCI 485: Introduction to Natural Language Processing Amherst, MA
- Advised student teams on final project ideas and provided extra weekly office hours for additional support.
 - Managed grading for homework, exams, and in-class exercises, and handled online student questions.
- Teaching Assistant, UMass Amherst** 01/2024 - 05/2024
COMPSCI 250: Introduction to Computation Amherst, MA
- Led weekly discussion and lab sessions, held regular office hours to support students, and graded assignments.

AWARDS AND HONORS

- Student Spotlight**, Neuroscience at UMass Amherst, 2023.
Merit Student Scholarship, Beijing University of Posts and Telecommunications, 2013-2017.

ACADEMIC SERVICES

- Reviewer**, *workshop on Building Trust in LLMs and LLM Applications*, ICLR 2025.
Reviewer, *workshop on Learning from Time Series for Health*, ICLR 2024 and NeurIPS 2022.
Reviewer, *IEEE Journal of Biomedical and Health Informatics (JBHI)* 2024.
Evaluation committee, *workshop on DATA*, Sensys & Buildsys 2024, 2023, 2022.

TECHNICAL SKILLS

- Languages:** Python, C/C++, Bash, L^AT_EX, Markdown, SQL, HTML/CSS
Libraries: PyTorch, NumPy, Matplotlib, Pandas, Scikit-Learn, Seaborn, SciPy
Tools: Linux, Git/GitHub