





# Hui Wei

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## EDUCATION

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

## RESEARCH INTERESTS

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Machine Learning, Large Language Models, Time Series, Internet-of-Things.

## RESEARCH EXPERIENCE

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<b>Research Scientist Intern</b> <i>PAII.Inc (Ping An Technology North America Research Institute, Silicon Valley)</i>	05/2024 – 08/2024 Palo Alto, CA
<ul style="list-style-type: none"><li>Worked on systematic evaluation on <b>LLM-as-a-Judge</b> methodology with summarization and conversation tasks.</li><li>Worked on improving <b>proximal policy optimization</b> algorithms for better LLM alignment with human preferences.</li><li>One paper [1] was submitted to AAAI 2025 (AI Alignment Track) and one paper [2] was submitted to NAACL 2025.</li></ul>	
<b>Research Assistant</b> <i>UMass Amherst</i>	09/2022 – 01/2024 Amherst, MA
<ul style="list-style-type: none"><li>Worked on a <b>temporally sparse self-attention model</b> to address the <b>missing data problem</b> in large-scale longitudinal physical activity data from the <i>All of Us</i> research program.</li><li>Worked on a <b>variational auto-encoder model</b> for irregularly sampled ICU data with various output distributions.</li><li>Worked on a reconstruction-based <b>contrastive learning</b> approach to improve the quality of time series encodings.</li><li>One paper [3] was accepted by CHIL 2024 and ICLR workshop on Learning from Time Series for Health 2024.</li><li>One paper [4] was accepted by ICLR 2024.</li></ul>	
<b>Research Assistant</b> <i>NYU Grossman School of Medicine</i>	02/2019 – 06/2020 New York City, NY
<ul style="list-style-type: none"><li>Worked on evaluation of diagnostic accuracy and fairness for <b>Alzheimer’s disease</b> and <b>Lewy body disease</b>.</li><li>Worked on <b>CNN, LSTM and Transformer-based models</b> for <b>disease onset prediction</b> using NYU EHR data.</li><li>One paper [5] was accepted by the journal <i>Frontiers in Aging Neuroscience</i> 2023.</li></ul>	

## PUBLICATIONS

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\* indicates equal contribution

- Hui Wei**, Zihao Zhang, Shenghua He, Tian Xia, Shijia Pan, and Fei Liu. “PlanGenLLMs: A Modern Survey of LLM Planning Capabilities.” *arXiv preprint arXiv:2502.11221* (2025).
- 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).
- 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.” *arXiv preprint arXiv:2408.02373* (2024).
- 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.
- Maxwell A. Xu, Alexander Moreno, **Hui Wei**, Benjamin M. Marlin, James M. Rehg. “Retrieval-Based Reconstruction for Time-series Contrastive Learning.” *12th International Conference on Learning Representations (ICLR)*, 2024.
- 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

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### 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

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**Student Spotlight**, Neuroscience at UMass Amherst, 2023.

**Merit Student Scholarship**, Beijing University of Posts and Telecommunications, 2013-2017.

## ACADEMIC SERVICES

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**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

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**Languages:** Python, C/C++, Bash, L<sup>A</sup>T<sub>E</sub>X, Markdown, SQL, HTML/CSS

**Libraries:** PyTorch, NumPy, Matplotlib, Pandas, Scikit-Learn, Seaborn, SciPy

**Tools:** Linux, Git/GitHub