




Hui Wei

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EDUCATION

Manning College of Information and Computer Sciences, UMass Amherst <i>Ph.D. in Computer Science</i>	2020 - Present <i>GPA: 3.9/4.0</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.S. in Telecommunication Engineering</i>	2013 - 2017 <i>GPA: 3.8/4.0</i>

WORK EXPERIENCE

Research Scientist Intern <i>PAII, Inc</i>	May 2024 – August 2024 <i>Palo Alto, CA</i>
<ul style="list-style-type: none">Improve the Reinforcement Learning algorithm (i.e. proximal policy optimization) for better alignment of Large Language Models (LLMs) with human preferences.Evaluate the alignment of LLMs with human preferences and assess their biases as automatic judges on summarization and multi-round conversation datasets.	
Project Associate <i>NYU Langone Health</i>	June 2019 – June 2020 <i>New York City, NY</i>
<ul style="list-style-type: none">Developed CNN and LSTM-based deep sequential models to predict disease onset using NYU EHR data.Assessed the diagnostic accuracy and fairness at clinics by comparing diagnosis with post-mortem autopsy results for Alzheimer's disease and Lewy body disease.	

PUBLICATIONS

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.

AWARDS AND HONORS

Student Spotlight, Neuroscience at UMass Amherst, 2023.
Merit Student Scholarship, Beijing University of Posts and Telecommunications, 2014-2017.

ACADEMIC SERVICES

Reviewer, workshop on Learning from Time Series for Health, ICLR 2024 and NeurIPS 2022.
Evaluation committee, workshop on DATA'23 at Sensys 2023 & Buildsys 2023.

TEACHING

Teaching Assistant, UMass Amherst <i>COMPSCI 250: Introduction to Computation</i>	January 2024 - May 2024 <i>Amherst, MA</i>
<ul style="list-style-type: none">Led weekly discussion section, held office hours, and graded homeworks.	

TECHNICAL SKILLS

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