Guanchen Wu

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RESEARCH INTERESTS

My research interests include graph data mining, LLM agents, and the application of machine learning models in healthcare, particularly for medical privacy and multimodal AI systems.

ACADEMIC BACKGROUND

Ph.D. Computer Science 2025 - resent
Emory University, Atlanta, GA

- Ph.D. research in AI4Health under supervision of Professor Carl Yang.

M.Sc. Computer Science 2023 - 2025
Emory University, Atlanta, GA

- Conducted research under supervision of Professor Carl Yang and Professor Liang Zhao.
- Focused on *graph data mining* and *LLMs*, with papers under submission to conferences like AMIA, and a demonstrated publication history in conferences such as ACL and journals such as Frontiers.

B.Sc. Computer Science 2019 - 2023
University of California, Irvine, Irvine, CA

- Awarded Dean's Honor List recognition for six quarters.

SPECIAL ACHIEVEMENTS

Academic Service

- **Reviewer**: ICCV (2025)
- **Reviewer**: ACL (2025)
- **Reviewer**: CVPR (2025)
- **Reviewer**: TNNLS (2025)
- **Reviewer**: SIGIR (2025)
- **Reviewer**: TNNLS (2024)

COMPLETE PUBLICATIONS

Publications

3. [**ACL 2025**] Bo Pan*, Zhen Xiong*, **Guanchen Wu***, Yifei Zhang, Zheng Zhang, Yuntong Hu, and Liang Zhao. TAGExplainer: Narrating Graph Explanations for Text-Attributed Graph Learning Models. *The 63rd Annual Meeting of the Association for Computational Linguistics.* Vienna, Austria, 2025.
   *Equal contribution.
2. [**MedInfo 2025**] **Guanchen Wu**, Linzhi Zheng, Han Xie, Zhen Xiang, Jiaying Lu, Darren Liu, Delgersuren Bold, Bo Li, Xiao Hu, and Carl Yang. Large Language Model Empowered Privacy-Protected Framework for PHI Annotation in Clinical Notes. *The 20th World Congress on Medical and Health Informatics.* Taiwan, 2025.
1. [**Frontier 2024**] **Guanchen Wu**, Chen Ling, Ilana Graetz, and Liang Zhao. Ontology Extension by Online Clustering With Large Language Model Agents. *Frontiers in Big Data*, 2024.

Under Submissions

1. [**AMIA 2025**] **Guanchen Wu**, Huanmei Wu, Zhe He, Hui Shao, Xiao Hu, and Carl Yang. Utilizing Large Language Models for Zero-Shot Medical Ontology Extension from Clinical Notes. *American Medical Informatics Association* Atlanta, Georgia, 2025.

EMPLOYMENT HISTORY

Research Assistant 2024
Emory University, Atlanta, GA

- Conducted research under the supervision of Professor Carl Yang, leading two projects: one focused on medical private data annotation (accepted by MedInfo 2025) and another on medical ontology extension (under submission to AMIA 2025).
- Conducted research under the supervision of Professor Liang Zhao, leading a project on ontology extension (accepted by Frontiers in 2024) and contributing to an XAI project (accepted by ACL main conference 2025).

Data Analyst Intern 2023
Volkswagen (Anhui) Automotive Co., Ltd, Anhui, China

- Utilized Python and SQL to manage and analyze the employee database, identifying patterns in hiring and internal promotions to inform HR strategies.
- Systematically tracked and compiled monthly data on resumes submitted for both campus and off-campus recruitments and analyzed the monthly offer issuance rate by comparing the number of submitted resumes to the number of offers made.
- Provided timely insights to the HR department based on monthly data, enabling them to adjust recruitment strategies and targets proactively.

UI/UX Designer Intern 2022
Google LLC, Irvine, CA

- Independently developed a GitHub page by learning and applying front-end programming tools such as HTML, CSS, TypeScript, and Angular.
- Learnt the structure of the end-to-end web application: front-end server implemented by Angular and back-end server implemented by Dropwizard framework and RESTful end-point.

Student Researcher 2022
Statistical Analysis Research, mentored by Professor Lizhong Zheng at MIT

- Developed the concepts in statistics and understand through practice how mathematical tools can be applied in data processing tasks.
- Learned the elements of the algorithms in data embedding and Markov Chain Monte Carlo.