

# Guanchen Wu

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**Address:** 7 Executive Park Dr NE, Atlanta, Georgia, 30329, USA

**Email:** guanchen.wu@emory.edu

**Phone:** +1 (949)-394-0026

**Website:** guanchenwu1015.github.io/

## 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 ontology systems.

## ACADEMIC BACKGROUND

*M.Sc. Computer Sciences*

2023 - present

[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 top-tier conferences like ICLR and NAACL, and a demonstrated publication history in 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:** TNNLS (2024)

## COMPLETE PUBLICATIONS

### Publications

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, Accepted.

### Under Submissions

2. **[NAACL 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. *2025 Annual Conference of the North American Chapter of the Association for Computational Linguistics*. Albuquerque, New Mexico, 2025.
1. **[ICLR 2025] Bo Pan**, Zhen Xiong, **Guanchen Wu**, Yifei Zhang, Zheng Zhang, and Liang Zhao. TAGEExplainer: Narrating Graph Explanations for Text-Attributed Graph Learning Models. *The Thirteenth International Conference on Learning Representations*. Singapore, 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 (currently under submission to NAACL 2025) and another on ontology extension (ongoing).

- 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, currently under submission to ICLR 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.