

# Zheyuan Liu

## PERSONAL INFORMATION

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Zheyuan Liu  
University of Notre Dame  
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Email: [zliu29@nd.edu](mailto:zliu29@nd.edu)  
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Google Scholar: <https://scholar.google.com/citations?user=NLA-nSUAJ&hl=en>  
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Website: <https://franciscoliu.github.io/>

## EDUCATION

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- 09/2019–05/2023 **B.S Computer Science**  
**B.S Applied Mathematics** (double-major)  
Brandeis University, Waltham, MA, USA  
**Cumulative GPA:** 3.87
- 09/2023– Current **PhD Computer Science**  
University of Notre Dame, Notre Dame, IN, USA  
**Cumulative GPA:** 4.00  
**Advisor:** Prof. [Meng Jiang](#)

## RESEARCH INTEREST

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**Privacy Preservation Machine Learning:** Large Language Model (LLM) Security, Machine Unlearning, Approximate Unlearning, Data Privacy

**Knowledge-based Model Editing (KME):** Knowledge Update, Knowledge Conflict, Model Editing

**Data-Centric Problem and Learning:** Data Augmentation, Data Generation, Generative AI

**Machine Learning and on Graphs:** Model Fairness, Model Robustness, Trustworthy-AI

## PUBLICATIONS

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1. **LIU, ZHEYUAN**, DOU, G., TAN, Z., TIAN, Y., AND JIANG, M. Towards safer large language models through machine unlearning. *arXiv preprint arXiv:2402.10058* (2024, Under Review of ACL)

2. **LIU, ZHEYUAN**, HE, X., TIAN, Y., AND CHAWLA, N. Can we soft prompt llms for graph learning tasks? In *arXiv preprint arXiv:2402.10359* (2024, Under Review of WWW Short Paper)
3. **LIU, ZHEYUAN**, DOU, G., TIAN, Y., ZHANG, C., CHIEN, E., AND ZHU, Z. Breaking the trilemma of privacy, utility, efficiency via controllable machine unlearning. In *The Web Conference (WWW)* (2024)
4. **LIU, ZHEYUAN**, ZHANG, C., TIAN, Y., ZHANG, E., HUANG, C., YE, Y., AND ZHANG, C. G-FAME: Fair graph representation learning via diverse mixture of experts. In *The Web Conference (WWW)* (2023)
5. TAN, Z., ZENG, Q., TIAN, Y., **LIU, ZHEYUAN**, YIN, B., AND JIANG, M. Democratizing large language models via personalized parameter-efficient fine-tuning. *arXiv preprint arXiv:2402.04401* (2024, Under Review of KDD)
6. TIAN, Y., ZHANG, C., KOU, Z., **LIU, ZHEYUAN**, ZHANG, X., AND CHAWLA, N. Ugmae: A unified framework for graph masked autoencoders. *Under Review of IEEE Transactions on Neural Networks and Learning Systems* (2024)
7. ZHANG, C., TIAN, Y., JU, M., **LIU, ZHEYUAN**, YE, Y., CHAWLA, N., AND ZHANG, C. Chasing all-round graph representation robustness: Model, training, and optimization. In *ICLR* (2023)
8. WU, J., ZHANG, C., **LIU, ZHEYUAN**, ZHANG, E., WILSON, S., AND ZHANG, C. GraphBERT: Bridging graph and text for malicious behavior detection on social media. In *ICDM* (2022)
9. WANG, Y., PENG, H. M., SHA, L., **LIU, ZHEYUAN**, AND HONG, P. State-level covid-19 trend forecasting using mobility and policy data. *medRxiv* (2021)

## TEACHING EXPERIENCE

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09/2021 – 05/2023 **Brandeis University**, Waltham, MA

*Teaching Assistant*

- Acted as teaching assistant for **COSI 10a** (Python), **COSI 12b** (JAVA), **COSI 103a** (Fundamentals of Software Engineering) and **COSI 131a** (Operating System class), held office hours each week helping students with programming assignments and questions about the content from the lecture.
- Assisted Professor grade assignments, exams and gave feedback to students.

09/2023 – Current **University of Notre Dame**,

*Teaching Assistant*

- Acted as teaching assistant for **CSE-40923** (Case Studies in Computing-Based Entrepreneurship class), held office hours each week helping students with programming assignments and questions about the content from the lecture.
- Assisted Professor grade assignments, exams and gave feedback to students.

## HONORS, AWARDS & SCHOLARSHIPS

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05/2023 Molly W. and Charles K. Schiff Memorial Award (Top 3 %)  
06/2022 Provost's Research Fellowship (5000 dollars)  
12/2019 Dean's List (Every semester)  
09/2017 [Patent](#) of a new type of packing tool

## SKILLS:

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Python, Pytorch, Tensorflow, Deep Learning, Java, JavaScript, HTML, CSS, SQL, Linux command, Typescript

## SERVICE

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IEEE Transactions on Big Data Reviewer  
IEEE Transactions on Neural Networks and Learning Systems (TNNLS) Reviewer  
ICDM 2024 MLoG Workshop Reviewer  
TKDE 2023 Reviewer