

Zheyuan (Jason) Zhang

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Education

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- University of Notre Dame** South Bend, IN
Ph.D. in Computer Science Jul. 2023 – Present
 - **Research Interest:** Graph Neural Network, Retrieval Augmented Generation, Recommendation System
 - New York University, M.S.** Aug. 2019 – Aug. 2020
 - Wuhan University, B.E.** Sept. 2015 – Jun. 2019
 - **Awards:** 1st Class Scholarship 2016 - 2018, Leijun Scholarship 2018

Professional Experience

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- Coleridge Initiative, Inc.** New York, NY
Research Scientist Oct. 2021 – Mar. 2023
 - Lead the research project *Food for Thought*: using ML Methods to link food and nutrition databases on a security platform. Responsible for the toolkit and evaluation pipelines and communications between teams. Check [this blog](#) for the competition. Lead the *Unemployment Insurance* project, developing a real-time system to monitor the trend of unemployment rate for IL, IN, TN states.
 - Lead the Data Team of Coleridge, responsible for all incoming data ingestion and ETL pipelines.
 - Associated Research Scientist* Aug. 2020 – Oct. 2021
 - Responsible for the *Rich Context* project. This research project aims to identify and extract dataset mentions from full-text social science publications.
 - Host the Kaggle Competition *Show US the data*. Responsible for establishing a benchmark for the competition along with technical implementation. A paper is accepted to Harvard Data Science Review [4].
 - Junior Research Scientist (Intern)* Oct. 2019 – Aug. 2020
 - Work on KG completion and text entity extraction tasks for establishing a large-scale KG for *Rich Context* Competition.
 - US Ignite, Inc.** New York, NY
Research Fellow (Intern) Mar. 2020 – Aug. 2020
 - Research on the Smart Monitor for Accelerating Regional Transformation project. Cooperate with senior research fellows to develop a recommendation system to help small business owners find better business locations.

Selected Publications

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- [1] **Diet-ODIN: A Novel Framework for Opioid Misuse Detection with Interpretable Dietary Patterns** [KDD'24]
 - **Zheyuan Zhang**, Zehong Wang, Shifu Hou, Evan Hall, Landon Bachman, Vincent Galassi, Jasmine White, Nitesh V Chawla, Chuxu Zhang, Yanfang Ye
 - [2] **MOPI-HFRS: A Multi-objective Personalized Health-aware Food Recommendation System with LLM-enhanced Interpretation** [KDD'25]
 - **Zheyuan Zhang**, Zehong Wang, Tianyi Ma, Varun Sameer Taneja, Sofia Nelson, Nhi Ha Lan Le, Keerthiram Murugesan, Mingxuan Ju, Nitesh V Chawla, Chuxu Zhang, Yanfang Ye
 - [3] **Subgraph Pooling: Tackling Negative Transfer on Graphs** [IJCAI'24]
 - Zehong Wang, **Zheyuan Zhang**, Chuxu Zhang, Yanfang Ye
 - [4] **Data inventories for the modern age? Using data science to open government data** [HDSR'22]
 - Julia Lane, Ernesto Gimeno, Ekaterina Levitskaya, **Zheyuan Zhang**, Alberto Zigoni
 - [5] **Computation Tree: A Transferable Pattern Towards Graph Foundation Models** [NIPS'24]
 - Zehong Wang, **Zheyuan Zhang**, Chuxu Zhang, Yanfang Ye
 - [6] **Training MLPs on Graphs without Supervision** [WSDM'25]
 - Zehong Wang, **Zheyuan Zhang**, Nitesh V Chawla, Chuxu Zhang, Yanfang Ye

Service

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- **Conference Program Committee:** KDD'25, ReIKDD'24, SDM'25
 - **Journal Reviewer:** Transactions on Big Data, Transactions on the Web, Data Mining and Knowledge Discovery
 - **Teaching Assistant:** FA23-CSE-40113, SP24-CSE-40113: Design/Analysis of Algorithms