

Zheyuan (Jason) Zhang

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Education

University of Notre Dame

Ph.D. in Computer Science

South Bend, IN

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

Coleridge Initiative, Inc.

Research Scientist

New York, NY

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.

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.

Research Fellow (Intern)

New York, NY

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

[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] NGQA: A Nutritional Graph Question Answering Benchmark for Personalized Health-aware Nutritional Reasoning [ARR Dec Under Review: 4, 4, 3.5]

- **Zheyuan Zhang**, Yiyang Li, Nhi Ha Lan Le, Zehong Wang, Tianyi Ma, Vincent Galassi, Keerthiram Murugesan, Nuno Moniz, Werner Geyer, Nitesh V Chawla, Chuxu Zhang, Yanfang Ye

[4] Computation Tree: A Transferable Pattern Towards Graph Foundation Models [NIPS'24]

- Zehong Wang, **Zheyuan Zhang**, Chuxu Zhang, Yanfang Ye

[5] Subgraph Pooling: Tackling Negative Transfer on Graphs [IJCAI'24]

- Zehong Wang, **Zheyuan Zhang**, Chuxu Zhang, Yanfang Ye

Service

- **Conference Program Committee:** KDD'25, WWW'25, ReKDD'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