

Zixuan Yuan

📍 Rutgers University, NJ 📠 US (973) 493-9108

✉ yuanzx33033@gmail.com

🏠 <https://yuanzx33033.github.io/zixuan/>

OBJECTIVE

Ph.D. Candidate with strong data mining skills seeking a data science researcher position.

EDUCATION

Doctor of Philosophy

GPA:3.833/4.0

Rutgers Business School, Rutgers University

September 2018 - Present

Master of Science

GPA:3.833/4.0

Rutgers Business School, Rutgers University

Graduation: January 2017

Bachelor of Science

GPA:3.3/4.0

Department of Economics, Tongji University, China

Graduation: June 2015

RESEARCH EXPERIENCE

IBM Watson Research, NY, US

June 2020 – August 2020

Data Science Researcher (Internship)

- 1) Developed an efficient and high-performance language model to exploit valuable information from quarterly earning calls for stock market volatility forecasting.

Event-based Corporate Profiling

February 2020 – May 2020

- 1) Assessed the evolving operational status of corporates from its event sequence.
- 2) Constructed event-based corporate profile via self-supervised prototype learning paradigm.
- 3) Improved the prediction accuracy of daily stock price spikes and corporate credit default events up to 75%, 80%, respectively.

Baidu Research, Beijing, China

May 2019 – August 2019

Data Science Researcher (Internship)

- 2) Incorporated the incremental learning paradigm to study the evolving trip preference of Baidu Maps' users.

Baidu Research, Beijing, China

May 2018 – August 2018

Data Science Researcher (Internship)

- 1) Implemented the spatiotemporal graph learning methods to provide dynamic and personalized query-POI matching criterions for Baidu Maps' users.

SELECTED PUBLICATIONS

1. **Zixuan Yuan***, Hao Liu*, Yanchi Liu, Denghui Zhang, Fei Yi, Nengjun Zhu, and Hui Xiong. *Spatio-Temporal Dual Graph Attention Network for Query-POI Matching*. SIGIR 2020.
2. **Zixuan Yuan**, Hao Liu, Renjun Hu, Denghui Zhang, and Hui Xiong. *Self-Supervised Prototype Representation Learning for Event-Based Corporate Profiling*. AAAI 2021.
3. **Zixuan Yuan**, Hao Liu, Junming Liu, Yanchi Liu, Yang Yang, Renjun Hu, and Hui Xiong. *Incremental Spatio-Temporal Graph Learning for Online Query-POI Matching*. WWW 2021.
4. Denghui Zhang*, **Zixuan Yuan***, Hao Liu, Xiaodong Lin, and Hui Xiong. *Learning to Walk with Dual Agents for Knowledge Graph Reasoning*. AAAI 2022.
5. Denghui Zhang, **Zixuan Yuan**, Yanchi Liu, Hao Liu, Fuzhen Zhuang, Hui Xiong, and Haifeng Chen. *Domain-oriented Language Modeling with Adaptive Hybrid Masking and Optimal Transport Alignment*. KDD 2021.

WORK EXPERIENCE

GMAX Asset Co. Ltd., Shenzhen, China

Data Analyst Intern

May 2016 - August 2016

- 1) ETL large-scale daily stock market data using Python/R.
- 2) Performed extensive data analysis on stock market data to validate the trading strategies.
- 3) Wrote reports about the impact of fiscal policies on the finance industry.

TECHNICAL SKILLS

Python, PyTorch, TensorFlow, R, SQL, Java, C#, SPSS, EXCEL, EVIEWS, SAS, Tableau

RESEARCH INTERESTS

General: Data Mining, Natural Language Processing, Graph Representation Learning, Spatiotemporal Analysis;
Applications: Event-driven Investing, Language Modeling, Quantitative Trading, POI Recommendation