Zixuan Yuan

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OBJECTIVE

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

EDUCATION

Doctor of Philosophy — **Rutgers Business School, Rutgers University**
GPA:3.833/4.0 — Estimated Graduation: May 2022

Master of Science — **Rutgers Business School, Rutgers University**
GPA:3.833/4.0 — Graduation: January 2017

Bachelor of Science — **Department of Economics, Tongji University, China**
GPA:3.3/4.0 — 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.

RavenPack, NY, US — November 2020 – February 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