

LEI QIAN

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EDUCATION

Peking University

Sep. 2023 - Present

M.Sc in Data Science, Academy for Advanced Interdisciplinary Studies

Advisor: Prof. Songxi Chen

East China Normal University

Sep. 2018 - Jul. 2023

M.Sc in Statistics, School of Statistics

RESEARCH INTERESTS

Diffusion Model, Machine Learning and Statistics Learning Theory, Deep Learning Application

WORKING EXPERIENCE

Hellobike - Algorithm Intern

Jan. 2022 - Apr. 2022

- Extract data using Hive and Spark, calculate sample size, perform offline traffic segmentation, determine duration distribution for red envelope car earnings, evaluate earnings duration, and deploy online A/B testing via an internal platform.
- Apply DBSCAN for regional segmentation, establish difficulty models for regions, create multi-class user models and car-finding probability models based on regions, and integrate them into a car-finding difficulty strategy model.
- Utilize graph networks, filter edges and nodes using PR values and eigenvector centrality based on business rules, employ Infomap and Louvain for community detection and spectral clustering in a city, and complete community stability validation and subsequent in-community turnover earnings prediction models.

PUBLICATIONS

1. Sun, M., **Qian, L.**, Mukherjee, A., & Xiang, D. (2023). An EWMA chart for high dimensional process with multi-class out-of-control information via random forest learning. *Quality Technology & Quantitative Management*, 1-27.

SKILLS

Programming: Python, R, C++, SQL, \LaTeX

Languages: Mandarin(native), English(CET-6 533)

AWARDS AND SCHOLARSHIPS

Merit Communist Youth League Cadres of East China Normal University *Apr. 2022*

Second Prize of The China Undergraduate Mathematical Contest in Modeling *Dec. 2021*

Second Prize of The Chinese Mathematics Competitions *Nov. 2020*

Baidu Star Programming Competition Finals *Oct. 2020*

Merit Scholarship of East China Normal University *2019/2020/2021*