

LEI QIAN

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EDUCATION

Peking University

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

Advisor: Prof. Songxi Chen

Sep. 2023 - Present

East China Normal University

B.Sc in Statistics, School of Statistics

Sep. 2018 - Jul. 2023

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, L^AT_EX

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