Qian Li

Mail: qianli@stu.pku.edu.cn | Tel: +86 180-4880-2193 | Website: https://qianli06.github.io/

Education

Peking University Sept 2022 – July 2025

- MS in Signal and Information Processing, GPA: 86/100
- **Award:** Graduate Academic Scholarship, 2022-2025
- **Coursework:** Mobile Communication System, Digital Communications, Machine Learning, Deep Learning, Stochastic Process, Information Theory and Coding, Signal Detection and Estimation

Beijing Jiaotong University Sept 2018 – July 2022

- BS in Information Management and Information System, GPA: 86/100
- **Award:** National Encouragement Scholarship, 2021
- **Coursework:** Data Structure, Computer Network, Operation System, Big Data Analysis and Mining, Big Database, Object-Oriented Programming, Information Systems Development, Internet of Things Technologies.

Publication

Reconfigurable Holographic Surface-aided Distributed MIMO Radar Systems Dec 2024

Qian Li, Ziang Yang, Dou Li, Hongliang Zhang,

IEEE Communication Letters(resubmitted), arxiv link https://arxiv.org/abs/2412.06279

Research Experience

Research Assistant, Peking University, Beijing Mar 2024 – Nov 2024

- Investigated extremly-large RIS-assisted indoor user localization, distributed phased-MIMO radar
- Designed communication and radar systems and algorithms
- Builded distributed MIMO radar systems with at least 4.98 dB performance improvement

Research Assistant, Beijing Jiaotong University, Beijing Jan 2022 – June 2022

- Investigated the knowledge graph
- Designed Algorithms to analyze risky communities and vulnerable nodes based on a risk knowledge graph

Teaching Experience

Teaching Assistant, Peking University, Beijing Sept 2022 – Feb 2023

- **Course:** Fundamentals of Machine Learning for Predictive Data Analysis Sept 2023 – Feb 2024
- Graded and answered homework assignments and organized presentations

Projects

Adversarial Attacks and Training for Image Classification Models June 2023

- Trained a model and performed a directed white-box attack and adversarial training
- Performed a directed black-box attack on a black-box model
- Tools Used: python, pytorch, numpy

Raisin classification based on machine learning algorithm Jan 2023

- Created a raisin classification model with optimal parameter search and best performance measurements
- Tools Used: python, supervised algorithm

Skills

Languages: python, C++, C, Java, C#, SQL, JavaScript, SQL, XML

Software and Libraries: Matlab, PyTorch, Numpy, Tensorflow, LATEX, .NET, Microsoft SQL Server, Oracle