

QINFENG XIAO

✉ larryshaw0079@gmail.com

🎓 [Google Scholar](#)

🔗 [larryshaw0079](#)

🏠 [larryshaw0079.github.io](#)

Education

Beijing Jiaotong University

MEng of Computer Science (GPA 3.67/4.0; Supervised by [Prof. Jing Wang](#))

Sep. 2018 – Jun. 2021

Beijing, Haidian District

North University of China

BEng of Process Equipment and Control Engineering

Sep. 2014 – Jun. 2018

Shanxi, Taiyuan

Publications

- Jianan Ye*, **Qinfeng Xiao***. *CoSleep: A Multi-view Representation Learning Framework for Self-Supervised Learning of Sleep Stage Classification*. IEEE Signal Processing Letters, 2021 (JCR-Q1). (* equal contribution)
- **Qinfeng Xiao**. *Self-Supervised Learning for Sleep Stage Classification with Predictive and Discriminative Contrastive Coding*. ICASSP 2021 (CCF-B).
- **Qinfeng Xiao**. *Unsupervised Anomaly Detection with Distillated Teacher-Student Network Ensemble*. Entropy, 2021 (JCR-Q2).
- Yunxiao Liu, Youfang Lin, **Qinfeng Xiao**. *Self-adversarial Variational Autoencoder with Spectral Residual for Time Series Anomaly Detection*. Neurocomputing, 2021 (JCR-Q1).
- **Qinfeng Xiao**. *Memory-augmented Adversarial Autoencoders for Multivariate Time-series Anomaly Detection with Deep Reconstruction and Prediction*. ArXiv, 2021.
- Jing Tang, **Qinfeng Xiao**. *Simulation of Proton-Induced DNA Damage Patterns Using an Improved Clustering Algorithm*. Radiation Research, 2020 (JCR-Q1).

Work Experience & Projects

Xiaomi Inc. – IoT Department (Wearable Devices)

July 2021 – present

Machine Learning Engineer – Sports & Healthcare Algorithm

Beijing, Haidian District

- I'm responsible for developing state-of-the-art algorithms of real-world problems applied on wearable devices, including:
 - energy expenditure prediction based on Transformer and Multi-task Learning;
 - gesture recognition based remote TV controlling;
 - fall detection with wearable device sensors;
 - smart fitness assessment;
- I gained rich experiences of integrating machine learning solutions on embedding devices, project management and teamwork collaboration.

PyADTS

April 2021 – present

A Time-series Anomaly Detection Toolkit by PyTorch

Beijing, Haidian District

- A Python toolkit aimed at accelerating the workflow of time-series anomaly detection for researchers.

Teaching Assistant

September 2019 – December 2019

Machine Learning for Undergraduates

Beijing, Haidian District

- I'm responsible for assisting machine learning courses teaching, holding recitation and designing coding assignments.

Honors & Awards

- Outstanding graduate thesis award of Beijing Jiaotong University (2021)
- First-class scholarship of Beijing Jiaotong University (2020 & 2021)

Academic Services

I reviewed papers for the following journals:

- *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*
- *Physics in Medicine and Biology*
- *Scientific Reports*

Skills

Programming: C, C++, Python, Matlab, with practical experiences

ML/DL Frameworks: Scikit-learn, PyTorch, with practical experiences

Languages: English, Chinese Mandarin (native)