

# QINFENG XIAO

✉ [larryshaw0079@gmail.com](mailto:larryshaw0079@gmail.com)

🎓 [Google Scholar](#)

🔗 [larryshaw0079](#)

🏠 [larryshaw0079.github.io](#)

---

## Education

### Beijing Jiaotong University

*MEng. of Computer Science (GPA 3.7/4.0; Supervised by [Prof. Jing Wang](#))*

Sep. 2018 – Jun. 2021

*Beijing, Haidian District*

### North University of China

*BEng. of Process Equipment and Control Engineering (GPA 3.05/5.0)*

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).

---

## Work Experience

### Xiaomi Inc. – IoT Department (Wearable Devices)

*Machine Learning Engineer – Sports & Healthcare Algorithm*

July 2021 – April 2023

*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;
  - Xiaomi IoT application: smart TV controlling using wearable devices and gesture recognition;
  - smart watch fall detection with wearable device sensors, e.g. accelerator and gyroscope;
  - smart fitness assessment based on collected physiological data, e.g. heartrate, breathing rate, pressure and tracking data;
- Highlights of the work experience:
  - collaborating with top-tier hospitals (e.g. Peking University Third Hospital);
  - conducting data collection projects (including protocol designing, participant gathering, and data analysis);
  - I developed apps for both the smart watch and the smartphone;
  - I submitted several technical patents to National Intellectual Property Administration;
  - machine learning solutions developed by me are released on real products;

### Teaching Assistant

*Machine Learning for Undergraduates*

September 2019 – December 2019

*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 and Scientific Reports.

---

## Skills

**Programming:** C, C++, Python, Matlab, Java, Android Development, with practical experiences

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

**Languages:** English (IELTS band 6.5), Chinese Mandarin (native)