

# QINFENG XIAO

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## Education

### Beijing Jiaotong University

*MEng of Computer Science (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*

## Publication

- Jianan Ye\*, **Qinfeng Xiao**\*. *CoSleep: A Multi-view Representation Learning Framework for Self-Supervised Learning of Sleep Stage Classification*. IEEE Signal Processing Letters, 2021. (\* equal contribution)
- **Qinfeng Xiao**. *Self-Supervised Learning for Sleep Stage Classification with Predictive and Discriminative Contrastive Coding*. The International Conference on Acoustics, Speech, & Signal Processing (ICASSP), 2021.
- **Qinfeng Xiao**. *Unsupervised Anomaly Detection with Distillated Teacher-Student Network Ensemble*. Entropy, 2021.
- Yunxiao Liu, Youfang Lin, **Qinfeng Xiao**. *Self-adversarial Variational Autoencoder with Spectral Residual for Time Series Anomaly Detection*. Neurocomputing, 2021.
- **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.

## Work Experience

### Xiaomi Inc.

*Machine Learning Engineer*

July 2021 – present

*Beijing, Haidian District*

- Developed algorithms of predicting energy expenditure for wearable devices, based on multi-modal signals.

### TravelSky Technology Limited

*Collaboration Project Leader*

May 2019 – August 2019

*Beijing, Shunyi District*

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### Teaching Assistant

*Machine Learning for Undergraduates*

September 2019 – December 2019

*Beijing, Shunyi District*

- recitation
- designing coding projects and assignments
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## Projects

**PhysioSSL** | *Python, PyTorch, Self-supervised Representation Learning Toolkit*

April 2021

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- <https://github.com/larryshaw0079/PhysioSSL>

## 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

## Technical Skills

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

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

**Languages:** Chinese Mandarin (native), English (fluent)