

# Keqin Shi

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## Biography

I am a PhD student from the Department of Electronic Engineering, Shanghai Jiao Tong University. My supervisor is Professor Weiqiang Sun. My research interests mainly lie in the intersection of machine learning and healthcare. The proliferation of smartphones and wearable devices has enabled a rich collection of longitudinal health data, such as exercise data, heart rate, calorie expenditures, sleep, etc. Based on the characteristics of data, our works try to improve and innovate the existing machine learning algorithms to mine individual living habits intelligently and provide effective and personalised services.

## Education

2018 – **Shanghai Jiao Tong University**, Shanghai, China

Current **Ph.D.**, Department of Electronic Engineering

Advisor: Prof. Weiqiang Sun

2014 – 2018 **University of Electronic Science and Technology of China (UESTC)**, Chengdu, Sichuan, China

**B.E.**, School of Communication and Information Engineering

## Publications

- JBHI **Keqin Shi**, Zhen Chen, Weiqiang Sun, and Weisheng Hu, "Measuring regularity of human physical activities", Journal of Biomedical and Health Informatics (Under review), 2023
- HEALTH **Keqin Shi**, Zhen Chen, Xuejing Li, Zhifei Xiao, Weiqiang Sun, and Weisheng Hu, "Inferring Activity Patterns from Sparse Step Counts Data with Recurrent Neural Networks", ACM Transactions on Computing for Healthcare, 2022
- DataCom 2019 Haoqi Fu, **Keqin Shi**, and Weiqiang Sun, "Robust Classification of Step Data of Exercise", In The 5th IEEE International Conference on Big Data Intelligence and Computing, 2019
- ICC 2023 Xiao Lin, Lanfang Zheng, **Keqin Shi**, and Yajie Li, "Bulk Transfers With GCN Scheduling In Digital Twin Networks", In IEEE International Conference on Communications (ICC), 2023
- APCC 2022 Xiao Lin, Songlei Lin, Yaping Li, Junyi Shao, **Keqin Shi**, and Yajie Li, "Double-Machine-Learning-Based Resource Scheduling Method for Offloading Transfers", In 27th Asia Pacific Conference on Communications (APCC), 2022

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## Patents

- 2021 **Keqin Shi**, Weiqiang Sun. Method and system of motion pattern inference based on neural network motion step data[P].China:CN11343703 B.
- 2019 Haoqi Fu, **Keqin Shi**, Weiqiang Sun. Method and system of motion pattern recognition based on prior knowledge clustering[P].China:CN2110349646 B.

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## Teaching

Autumn 2019 **Teaching Assistant** at Shanghai Jiao Tong University  
Digital Circuit Design (undergraduate course)

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## Awards

- 2021 HuaWei Global AI Challenge, **Champion \$30000 (1/3600)**
- 2021 Huawei HMS APP Innovation Contest, **Best Application Award**
- 2018 **Outstanding Undergraduate**, UESTC
- 2017 Mathematical Contest In Modeling (MCM), **Meritorious Winner**
- 2017 Contemporary Undergraduate Mathematical Contese In Modeling, **Third Prize of Sichuan Province**

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## Skills

Programming Python, Java, Web development(PHP, HTML, CSS, JavaScript)  
Language English: CET-6