Qijia Shao

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Research Interests

Ubiquitous Computing, Statistical Signal Processing, and Human-Computer Interaction

Education

2018-Present **Dartmouth College**.
Ph.D. student in Computer Science
Advisors: **Prof. Xia Zhou and Prof. Devin Balkcom**

2014-2018 **University of Electronic Science and Technology of China**.
B.E in Electronic and Information Science, Yingcai Honours College
Advisor: **Prof. Jun Wang**
GPA: **3.99/4.0**

2016-2017 **National Chiao Tung University**.
Exchange student in Electrical Engineering
GPA: **4.0/4.0**

Appointment

Sep 2017 - **Missouri University of Science and Technology**.
Apr 2018 Research Intern
Advisor: **Prof. Yahong Rosa Zheng**
-Worked on statistical signal processing in undersea acoustic communications and networks. Similar to the cognitive radio perspective, we design algorithms to predict and utilize the time gap between the already existed undersea acoustic communication to increase the system throughput.

Publications

[1] Ruibo Liu, **Qijia Shao**, Siqi Wang, Christina Ru, Devin Balkcom, and Xia Zhou. Reconstructing Human Joint Motion with Computational Fabrics. *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT), vol. 3 no. 1, 2019. Presented at ACM International Joint Conference on Pervasive and Ubiquitous Computing (**UbiComp**), 2019*

[2] Wei Li, Jun Wang, Guosheng Yang, Yue Zuo, **Qijia Shao**, Shaoqian Li. Energy efficiency maximization oriented resource allocation in 5G ultra-dense network: Centralized and distributed algorithm. ***Computer Communication**, vol. 130, pp. 10-19, 2018*

[3] Guosheng Yang, Jun Wang, Guoyong Zhang, **Qijia Shao**, Shaoqian Li. Joint Estimation of Timing and Carrier Phase Offsets for MSK Signals in Alpha-Stable Noise. ***IEEE Communication Letters**, vol. 22, no. 1, pp. 89-92, 2018*

[4] Guoyong Zhang, Jun Wang, Guosheng Yang, **Qijia Shao**, Shaoqian Li. Nonlinear Processing for Correlation Detection in Symmetric Alpha-Stable Noise. ***IEEE Signal Processing Letters***, *vol. 25, no. 1, pp. 120-124, 2018*

[5] Wei Li, Jun Wang, **Qijia Shao** and Shaoqian Li. Efficient Resource Allocation Algorithms for Energy Efficiency Maximization in Ultra-Dense Network. *IEEE Global Communications Conference (**GLOBECOM**), December 2017*

[6] Guosheng Yang, Jun Wang, Guoyong Zhang, **Qijia Shao**, Shaoqian Li. Performance Analysis and Algorithm Design for Synchronization in Alpha-Stable Impulsive Noise. *IEEE Global Communications Conference (**GLOBECOM**), December 2017*

Selected Honors & Awards

2018   Excellent Undergraduate Student at UESTC

2018   Outstanding Undergraduate Thesis at UESTC

2016, 2017   National Scholarship, by the Ministry of Education of China

2017   Silver Prize in Chinese University Students Innovation and Entrepreneurship Competition

Teaching Assistant Experience

Fall 2018   **COSC 74/174 Machine Learning and Statistical Data Analysis**, *Dartmouth.*

-Held office hours, graded and wrote solutions for assignments and exams, and explained the exams.