Qinpei Luo

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My Homepage

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GitHub Profile

Education

•School of Electronics Engineering and Computer Science, Peking University *2019-*

Major:*Electronic Information Engineering, Bachelor of Science* CGPA/Percentage: 3.692/Top 3

•National School of Development, Peking University *2021-*

Double Degree:*Economics, Bachelor of Economics*

•High School *2016-2019*

Sichuan Mianyang Nanshan High School

Technical Skills

Language

Chinese: Native Speaker
English: Fluent

Programming Language

C/C++: Proficient
Python: Proficient
HTML: Familiar
Verilog: Familar
R: Familiar

Other Skills

VHDL and FPGA: *Basys3*, *ALINX AX301*
Software Design Radio: *USRP* and *Gnuradio*
Machine Learning: Familiar with *Pytorch* and *Tensorflow*

Research Interests

Wireless Communication and Networks

5G and beyond
Internet of Things

Mobile Computing

Edge Computing
Sensing and Localization
Augmented Reality and Virtual Reality

Machine Learning

Deep Learning
Reinforcement Learning
Transfer and Meta learning

Personal Projects

•Auto-Piano Based On Audio Detect *2021 Fall*

A piano based on Raspberry Pi that can identify music and play it with the piano.

– Link

•Basys-Robot *2022 Spring*

An auto-seek pilot with obstacle avoidance and Bluetooth control based on Digilent Basys3 and Verilog.

– Link Github

•E-Rack *2023 Spring*

A smart clothes hanger.

– Link Github

Publications

1. Qinpei Luo and Boya Di. Meta learning for meta-surface: A fast beamforming method for ris-assisted communications adapting to dynamic environments. In IEEE INFOCOM 2023 - IEEE Conference on Computer Communications Workshops (INFOCOM WKSHPS), pages 1–2, May 2023
2. Qinpei Luo, Boya Di, and Zhu Han. Meta-critic reinforcement learning for ios-assisted multi-user communications in dynamic environments. In 2023 IEEE 97th Vehicular Technology Conference (VTC2023-Spring), pages 1–6, 2023
3. Qinpei Luo, Ziang Yang, Boya Di, and Chenren Xu. Demo: Meta2locate: Meta surface enabled indoor localization in dynamic environments. In Proceedings of the Twenty-Fourth International Symposium on Theory, Algorithmic Foundations, and Protocol Design for Mobile Networks and Mobile Computing, MobiHoc '23, page 312–313, New York, NY, USA, Oct 2023. Association for Computing Machinery
4. Qinpei Luo, Boya Di, and Zhu Han. Meta-critic reinforcement learning for intelligent omnidirectional surface assisted multi-user communications [submitted to Transactions on Wireless Communications], Aug. 2023

For more details, please visit my homepage and find the publications link.

Experience

•**Intern** *2022-*

State Key Laboratory of Advanced Optical Communication Systems and Networks Beijing, China

– The lab is affiliated with the School of Electronics, Peking University.
– Advised by Dr. Boya, Di from School of Electronics, Peking University.

Presentations

In-person Poster Session
In IEEE Conference on Computer Communications, Hoboken, NJ, USA, May 2023.

Virtual Oral Presentation
In IEEE 97th Vehicular Technology Conference, Florence, Italy, Jun. 2023.

Positions of Responsibility

•**Reviewer,** The 98th IEEE Vehicular Technology Conference (VTC2023-Fall) *Aug. 2023*

•**Reviewer,** International Conference on Wireless Communications and Signal Processing *Aug. 2023*

•**Reviewer,** IEEE Internet of Things Journal *Sept. 2023*

•**Reviewer,** IEEE Transactions on Vehicular Technology *Oct. 2023*

Award & Funding

•**Innovation Project of Science,** sponsored by the government of Beijing *2022-*

•**Undergraduate Research Program,** sponsored by Peking University *2022-*