



Qinpei Luo

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🐙 [GitHub Profile](#)

EDUCATION

- **School of Electronics Engineering and Computer Science, Peking University** 2019-2024
Major: Electronic Information Engineering, Bachelor of Science CGPA/Percentage: 3.692/Top 3
- **National School of Development, Peking University** 2021-2024
Double Degree: Economics, Bachelor of Economics

TECHNICAL SKILLS

Language

Chinese: Native Speaker

English: Fluent

Programming Language

C/C++: Proficient

Python: Proficient

HTML: Familiar

Verilog: Familiar

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. LUO, Q., AND DI, B. 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) (May 2023), pp. 1–2
2. LUO, Q., DI, B., AND HAN, Z. Meta-Critic Reinforcement Learning for IOS-Assisted Multi-User Communications in Dynamic Environments. In 2023 IEEE 97th Vehicular Technology Conference (VTC2023-Spring) (2023), pp. 1–6
3. LUO, Q., YANG, Z., DI, B., AND XU, C. 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 (New York, NY, USA, Oct 2023), MobiHoc '23, Association for Computing Machinery, p. 312–313
4. LUO, Q., DI, B., AND HAN, Z. Meta-Critic Reinforcement Learning for Intelligent Omnidirectional Surface Assisted Multi-User Communications [Under Major Revision of Transactions on Wireless Communications], Aug. 2023

For more details, please visit my homepage and find the [publications](#) link.

EXPERIENCE

•Intern

State Key Laboratory of Advanced Optical Communication Systems and Networks

2022-
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.

In-person Demo Session

In 24th International Symposium on Theory, Algorithmic Foundations, and Protocol Design for Mobile Networks and Mobile Computing, Washington DC, USA, Oct. 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*
- Reviewer**, IEEE International Conference on Machine Learning for Communication and Networking *Nov. 2023*

AWARD & FUNDING

- Innovation Project of Science**, sponsored by the government of Beijing *2022-*
- Undergraduate Research Program**, sponsored by Peking University *2022-*
- Academic Innovation Award**, awarded by Peking University *2023*
- Outstanding Research Award**, awarded by Peking University *2023*
- Shenzhen Stock Exchange Fellowship**, awarded by Peking University and Shenzhen Stock Exchange *2023*