



**Qinpei Luo**

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## EDUCATION

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- **School of Electrical Engineering and Computer Science, Peking University** 2019-  
*Major: Electrical Engineering, Bachelor of Science* CGPA/Percentage: 3.692/20%
- **National School of Development, Peking University** 2021-  
*Double Degree: Economics, Bachelor of Economics* CGPA/Percentage: 3.692/20%
- **High School** 2016-2019  
*Sichuan Mianyang Nanshan High School*

## TECHNICAL SKILLS

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### 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

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### 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

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- **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

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1. Qinpei Luo and Boya Di. Meta learning for meta-surface: A fast beamforming method for ris-assisted communications adapting to dynamic environments [accepted]. In IEEE INFOCOM 2023 - IEEE Conference on Computer Communications Workshops (INFOCOM WKSHPS), pages 1–2, Hoboken, NJ, USA, 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 [accepted to Mobihoc 2023], Nov. 2023
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

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### •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

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### 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

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- Reviewer**, The 98th IEEE Vehicular Technology Conference (VTC2023-Fall) *Aug. 2023*
- Reviewer**, International Conference on Wireless Communications and Signal Processing *Aug. 2023*

## AWARD & FUNDING

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- Innovation Project of Science**, sponsored by the government of Beijing *2022-*
- Undergraduate Research Program**, sponsored by Peking University *2022-*