# Qinpei Luo

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My Homepage

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GitHub Profile


## Education

**•School of Electronics Engineering and Computer Science, Peking University** *2019-2024*

***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*

## 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

## 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) (Jun. 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
5. Luo, Q., Zhang, H., Xu, M., Di, B., Chen, A., Mao, S., Niyato, D., and Han, Z. An Overview of 3GPP Standardization for Extended Reality (XR) in 5G and Beyond. GetMobile: Mobile Comp. and Comm. 27, 3 (Nov 2023), 10–17


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

## 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

## Experience

•**Research Intern** *2022-*

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

– 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., Nov. 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*