Qinpei Luo

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My Homepage

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GitHub Profile

Education

- **University of California, San Diego** *2024-*
  Electrical and Computer Engineering, Doctor of Philosophy
  Advised by Dr. Xinyu Zhang
- **School of Electronics Engineering and Computer Science, Peking University** *2019-2024*
  Major:*Electronic Information Engineering, Bachelor of Science* CGPA/Percentage: 3.697/Top 3
  Advised by Dr. Boya, Di
- **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., Han, Z., and Di, B. Meta-critic reinforcement learning for intelligent omnidirectional surface assisted multi-user communications. IEEE Transactions on Wireless Communications 23, 8 (2024), 9085–9098
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
6. Luo, Q., Gao, J., and Di, B. Horus: Enhancing safe corners via integrated sensing and communication enabled by reconfigurable intelligent surface. In Proceedings of the 30th Annual International Conference on Mobile Computing and Networking (New York, NY, USA, 2024), ACM MobiCom '24, Association for Computing Machinery, p. 2187–2190

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

Research Center Affiliation

•Graduate Student Researcher *2024-*

Center for Wireless Communications, University of California, San Diego La Jolla, USA

– Advised by Dr. Xinyu Zhang from Electrical and Computer Engineering, University of California, San Diego.

•Research Intern *2022-2024*

Future Internet of Things Lab, Peking University 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 the 24th International Symposium on Theory, Algorithmic Foundations, and Protocol Design for Mobile Networks and Mobile Computing, Washington DC, USA, Oct. 2023.

In-person Oral Presentaton
In the 30th Annual International Conference on Mobile Computing and Networking, Washington DC, USA, Nov. 2024.

Positions of Responsibility

•Reviewer, The 98th IEEE Vehicular Technology Conference (VTC2023-Fall)

•Reviewer, International Conference on Wireless Communications and Signal Processing

•Reviewer, IEEE Internet of Things Journal

•Reviewer, IEEE Transactions on Vehicular Technology

•Reviewer, IEEE International Conference on Machine Learning for Communication and Networking

•Reviewer, IEEE International Conference on Communications

•Reviewer, IEEE Transactions on Machine Learning in Communications and Networking

Award & Funding

•Innovation Project of Science, sponsored by the government of Beijing *2022-2024*

•Undergraduate Research Program, sponsored by Peking University *2022-2024*

•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*

•Top 10 Excellent Graduation Thesis, awarded by School of Electronics Engineering and Computer Science, Peking University *2024*

•Outstanding Undergraduate Graduation Thesis, awarded by Peking University *2024*

•Outstanding Graduate in Electronic Information Engineering awarded by School of Electronics Engineering and Computer Science, Peking University *2024*