Xianliang Li

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Tokyo, Japan

Research interests

Deep Learning Theory, Optimization

Education

2025 – 2028 (Expected)	**The Graduate University for Advanced Studies, SOKENDAI** Ph.D. in Statistical Science
2022 – 2025	**University of Chinese Academy of Sciences** M.Eng. in Computer Technology
2018 – 2022	**Sun Yat-sen University** B.S. in Physics

Publications

* - equal contribution, † - corresponding author.

2025	**Time-of-Arrival Simultaneous Sensor and Target Localization with Dynamic Optimal Sensor Placements** **Xianliang Li**, Sheng Xu†, K. C. Ho. *IEEE Transactions on Aerospace and Electronic Systems.*
2025	**AOA Sensor Placement for Anchor-Assisted Target Localization in GNSS-Denied Environment: Formulation, Bounds and Optimization** Sheng Xu, Linlong Wu, **Xianliang Li**, Xinyu Wu†, Tiantian Xu†. *IEEE Transactions on Mobile Computing.*
2025	**On the Performance Analysis of Momentum Method: A Frequency Domain Perspective** **Xianliang Li***, Jun Luo*, Zhiwei Zheng*, Hanxiao Wang, Li Luo, Lingkun Wen, Linlong Wu, Sheng Xu†. *International Conference on Learning Representations (ICLR).*

2024	**Systematical Sensor Path Optimization Solutions for AOA Target Localization Accuracy Improvement with Theoretical Analysis**
	Sheng Xu, Bing Zhu, **Xianliang Li**, Xinyu Wu, Tiantian Xu[†].
	IEEE Transactions on Vehicular Technology.

2024	**3D Source Tracking Using a Position-Unknown AOA Sensor with Measurement Drift and UAV Moving Direction Optimization**
	Rongrong Xu, Sheng Xu[†], Kaimin Cao, **Xianliang Li**, Jialiang Wang, Wujing Cao.
	IEEE International Conference on Real-time Computing and Robotics.

Experience

October 2025 – Now	**The Institute of Statistical Mathematics,** Research Assistant
	Mentors: Professor Han Bao.

July 2025 – Now	**The Chinese University of Hong Kong,** Visiting Student
	Mentors: Professor Weiyang Liu.

September 2023 – June 2025	**Shenzhen Institutes of Advanced Technology,** Research Student
	Mentors: Professor Sheng Xu.
	• Acted as the team leader and studied the optimizer of deep learning.
	• Studied sensor localization and estimation under Prof. Sheng Xu.

2019 – 2020	**Cantonese Association of Sun Yat-sen University,** President
	• Organized Cantonese cultural activities.

Awards

2025 – Present	SOKENDAI Special Researcher.
	Supported by JST SPRING, Japan Grant Number JPMJSP2104.

Technical skills

Coding & Software

Familiar: Python, MATLAB, LaTeX, PyTorch, Git.   Basic: C++.

Languages

Cantonese: Native. Mandarin: Native. English: Competent.

Presentation

Presented research at machine learning conference: ICLR 2025.