

Yongtai Yin

✉ ytyin@link.cuhk.edu.hk • 🌐 yongtai-yin.github.io • in yongtai-yin

Last Updated: January 19, 2026

Research Interests

Optimization for Signal Processing, Deep Learning (Generative Models), Wireless Sensing

Education

The Chinese University of Hong Kong (CUHK)

Ph.D. Student in Electronic Engineering

Hong Kong SAR

2024 – Present

○ Supervisor: Wing-Kin Ma

Northwestern Polytechnical University (NWPU)

M.Eng. in Information and Communication Engineering

Xi'an, China

2021 – 2024

○ Supervisors: Ling Wang and Yuexian Wang

Northwestern Polytechnical University (NWPU)

B.Eng. in Communication Engineering

Xi'an, China

2017 – 2021

Publications

- **Y. Yin**, J. Liu, W.-K. Ma*, “Error Bound Based Exact Penalization for Cardinality-Constrained Clustering,” in *Proc. Int. Conf. Acoust. Speech Signal Process. (ICASSP)*, 2026
- **Y. Yin**, Y. Wang*, T. Dai, et al. “DOA Estimation Based on Smoothed Sparse Reconstruction with Time-Modulated Linear Arrays,” *Signal Process.*, 2024 [DOI]
- **Y. Yin**, Y. Wang*, Y. Gong, et al. “Joint Multipath Channel Estimation and Array Channel Inconsistency Calibration for Massive MIMO Systems,” *IEEE Internet Things J.*, 2024 [DOI]
- Y. Wang, M. S. Obaidat, **Y. Yin**, et al. “Robust Sparse Direct Localization of Smart Vehicle With Partly Calibrated Time Modulated Arrays,” *IEEE Trans. Intell. Transp. Syst.*, 2023 [DOI]
- **Y. Yin**, Y. Wang*, Y. Gong, et al. “Biquaternion-Based DOA Estimation of Noncircular Signals with Time-Modulated Antenna Arrays,” *AEU Int. J. Electron. Commun.*, 2023 [DOI]

Technical Skills

Expertise	Matrix Analysis, Optimization, Statistical & Array Signal Processing
Programming	Python (PyTorch, NumPy, SciPy), MATLAB, C/C++
Tools	Git, Linux/Shell, \LaTeX

Honors & Awards

- **Postgraduate Studentship**, CUHK, 2024 – Present
- **Outstanding Master's Thesis**, NWPU, 2024
- **Outstanding Graduates** (Postgraduates & Undergraduates), NWPU, 2024 & 2021