

Yongtai Yin

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

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

- Supervisor: Wing-Kin Ma

Hong Kong SAR

2024 – Present

Northwestern Polytechnical University (NWPU)

M.Eng. in Information and Communication Engineering

- Supervisors: Ling Wang and Yuejian Wang

Xi'an, China

2021 – 2024

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, L^AT_EX

Honors & Awards

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