

Yongtai Yin

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Last Updated: January 16, 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 Yuexian Wang

Xi'an, China

2021 – 2024

Northwestern Polytechnical University (NWPU)

B.Eng. in Communication Engineering

Xi'an, China

2017 – 2021

Publications

- **Y. Yin**, Y. Wang*, T. Dai, et al. “DOA Estimation Based on Smoothed Sparse Reconstruction with Time-Modulated Linear Arrays,” in *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,” in *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,” in *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,” in *AEU Int. J. Electron. Commun.*, 2023 [\[DOI\]](#)

Manuscripts

- **Y. Yin**, J. Liu, and W.-K. Ma*, “Error Bound Based Exact Penalization for Cardinality-Constrained Clustering,” submitted to *ICASSP 2026* (Under Review)

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