CURRICULUM VITAE

Yikun Wang

M.Phil. Researcher · Electrical and Computer Engineering

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The University of Hong Kong

EDUCATION

The University of Hong Kong
2024–2026

M.Phil. in Electrical and Computer Engineering
Advisor: Prof. Yik-Chung Wu · GPA: 4.3 / 4.3

Beihang University
2020–2024

B.E. in Electronic Information Engineering
GPA: 3.6 / 4.0 · Academic Scholarships (2021, 2022) · Competition Scholarship (2022)

RESEARCH INTERESTS

Learning-based optimization, wireless communications, 3D Gaussian Splatting, low-altitude 3D reconstruction, reinforcement learning, and robotic motion planning.

RESEARCH EXPERIENCE

Visiting Research Assistant
2024.12–2026.04

Great Bay University & Shenzhen Research Institute of Big Data
Advisor: Prof. Yang Li. Research on cell-free network design, learning-based combinatorial optimization, and vector-quantized CSI compression and precoding.

PUBLICATIONS & PATENT

1. **Y. Wang**, Y. Wan, W. Zuo, S. Wang, Y.-C. Wu, C. Xu, and H. Arslan, “LAGS: Low-Altitude Gaussian Splatting with Groupwise Heterogeneous Graph Learning,” IEEE Transactions on Vehicular Technology, accepted, 2026. arXiv
2. **Y. Wang**, Y. Li, Y.-C. Wu, and R. Zhang, “A General Deep Learning Framework for Wireless Resource Allocation under Discrete Constraints,” under review at IEEE TWC, 2026. arXiv
3. **Y. Wang**, Y. Li, Z. Ren, J. Lei, Y.-C. Wu, and R. Zhang, “Learning to Jointly Optimize Antenna Positioning and Beamforming for Movable Antenna-Aided Systems,” IEEE ICC, 2026. arXiv
4. “Downlink Beamforming in Cell-Free Systems with Compressed CSI: A Vector Quantized Learning Approach,” under review at IEEE GLOBECOM, 2026.
5. C. Zhang, W. Zuo, B. Cheng, **Y. Wang**, W.-B. Kou, Y.-C. Wu, and N. Wong, “NTK-Guided Implicit Neural Teaching,” CVPR, 2026.
6. W. Zuo, C. Li, **Y. Wang**, B. Cheng, Z. Ren, S. Wang, D. W. K. Ng, and Y.-C. Wu, “HPTune: Hierarchical Proactive Tuning for Collision-Free Model Predictive Control,” IEEE ICASSP, 2026. arXiv
7. W. Zuo, C. Li, B. Cheng, **Y. Wang**, et al., “DPNet: Doppler LiDAR Motion Planning for Highly-Dynamic Environments,” IEEE RA-L, 2026. arXiv
8. “Efficient Transceiver Design for Aerial Image Transmission and Large-scale Scene Reconstruction,” accepted by IEEE ISIT Workshop, 2026.
9. **王艺堃**，“一种无蜂窝系统的联合授权与波束赋形方法及其相关设备”，国家发明专利，申请号：202610309500.6，申请日期：2026年3月13日。

TECHNICAL SKILLS

Python, MATLAB, C, Verilog, PyTorch, graph neural networks, reinforcement learning.

LANGUAGES

Chinese (native), English (TOEFL iBT 102).

LEADERSHIP & ACTIVITIES

Former Party branch secretary of the Beihang Student Choir, vice president of the Beihang A Cappella Club, and founder of the Beihang Alumni Vocal Ensemble. Organized concerts and performances, arranged a cappella works, and participated in award-winning Beijing collegiate arts showcases.