

YANG ZHAO

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🎓 EDUCATION

Imperial College London	2019 – 2024
PhD · <i>Wireless Communications</i>	
Imperial College London	2018 – 2019
MSc · <i>Communications and Signal Processing</i>	
University of Liverpool + Xi'an Jiaotong-Liverpool University	2014 – 2018
BEng · <i>Communications and Electronics</i>	

👥 WORK

China Mobile Group Guangzhou	2018
Intern · <i>Base station and emergency communication maintenance</i>	
China Mobile Group Design Institute Guangzhou	2017
Intern · <i>NB-IoT and FDD-LTE performance evaluation</i>	

📁 RESEARCH

Interference Alignment via Beyond Diagonal RIS	In progress
Journal · <i>To be submitted</i>	
MIMO Channel Shaping Using Reconfigurable Intelligent Surfaces: From Diagonal to Beyond	In progress
Journal · <i>To be submitted</i>	
Index Modulation Multiple Access: A Rate-Splitting Approach	In progress
Flexible · <i>To be submitted</i>	
Reconfigurable Intelligent Surfaces in Wireless Information and Power Transfer	2023
Book Chapter · <i>Intelligent Surfaces Empowered 6G Wireless Network</i>	
RIScatter: Unifying Backscatter Communication and Reconfigurable Intelligent Surface	2023
Journal · <i>IEEE Journal on Selected Areas in Communications</i>	
IRS-Aided SWIPT: Joint Waveform, Active and Passive Beamforming Design	2021
Journal · <i>IEEE Transactions on Communications</i>	

📖 TEACHING

Wireless Communications and Optimization	2020 – 2023
Assistant · <i>Master's course</i>	
Communications and Signal Processing Laboratory	2020 – 2023
Assistant · <i>Master's course</i>	
Communications	2021 – 2023
Assistant · <i>Undergraduate's course</i>	

IET Student Prize

2018

Prize · *Institution of Engineering and Technology*