

YANG ZHAO

✉ i@snowztail.com · 🌐 SnowzTail · ☎ 7747-390-777

🎓 EDUCATION

Imperial College London <i>PhD in Backscatter and Wireless Information and Power Transfer</i>	2019 – Present
Imperial College London <i>MSc Communications and Signal Processing</i>	2018 – 2019
University of Liverpool <i>BEng Communications and Electronics</i>	2016 – 2018

👥 WORK

China Mobile Group , Guangzhou, China <i>Intern Engineer</i> <ul style="list-style-type: none">• Maintained servers, base stations, and emergency communication vehicles• Analyzed device power consumption and MRO statistics	2018
China Mobile Group Design Institute , Guangzhou, China <i>Intern Assistant</i> <ul style="list-style-type: none">• Summarized commercial solutions of NB-IoT and FDD-LTE (BBU, RRU, microcell)• Evaluated real-site FDD/TDD-LTE performance (RSRP, SINR, CSFB)	2017

🚀 RESEARCH

Metascatter: Unifying Symbiotic Radio and Intelligent Reflecting Surface <ul style="list-style-type: none">• We propose the concept of Metascatter, which adapts the input probability distribution of a conventional backscatter device based on CSI, to act as both parasitic source of SR and reflecting element of IRS.	2021 – Present
IRS-Aided SWIPT: Joint Waveform, Active and Passive Beamforming Design <ul style="list-style-type: none">• This paper considers waveform and beamforming design to boost the rate-energy tradeoff for a practical SWIPT user in an IRS-aided multi-carrier system.	2019 – 2020

☰ EXPERIENCE

- Know MATLAB, C, C++, Python, HTML, CSS, Apache, Nginx, Git, Docker, PGP, S/MIME
- Have 8-year experience with Linux and 15-year experience with Windows
- Host personal webserver, cloud drive, password vault, image host, email service, and IRC bots
- GTA on Teams (manage group, meeting and assignment), Blackboard (add resource and mark coursework), and Panopto (record and upload lecture)
- Familiar with CSP group, Imperial HPC (use and debug), and ICT routines