

YANG ZHAO

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🎓 EDUCATION

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

👥 WORKS

China Mobile Group , Guangzhou, China <i>Intern Engineer</i> <ul style="list-style-type: none">• Maintained base stations and run emergency communication vehicles• Investigated device power consumption and analyzed 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)• Simulated and evaluated real-site FDD/TDD-LTE performance (RSRP, SINR, CSFB)	2017

🚀 RESEARCH

Backscatter Modulation Design for Symbiotic Radio <ul style="list-style-type: none">• We departed from the difference between symbiotic radio and conventional MAC and optimized the tag input distribution to integrate backscatter modulation and passive beamforming.	2021
IRS-Aided SWIPT: Joint Waveform, Active and Passive Beamforming Design <ul style="list-style-type: none">• This paper investigated the R-E tradeoff of a single user employing practical receiving strategies in an IRS-aided multi-carrier MISO SWIPT system.	2020

☰ EXPERIENCE

- Skilled Arch Linux user and FOSS contributor, over 15 years experience with Windows
- Knowledge in MATLAB, C, C++, Python, HTML, CSS, Git, Docker, PGP, S/MIME
- Host Apache/Nginx webserver, Nextcloud storage, Bitwarden password vault, Postfix/Dovecot mail server

💖 ABOUT

- General IT knowledge and troubleshooting skills
- Friendly, helpful and enthusiastic person
- Familiar with CSP group and ICT affairs