Yang Zhao

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🎓 EDUCATION

Imperial College London   2019 – Present
PhD Candidate Wireless Communications

Imperial College London   2018 – 2019
MSc Communications and Signal Processing, with distinction

University of Liverpool   2016 – 2018
BEng Communications and Electronics, with distinction

👥 WORKS

China Mobile Group, Guangdong CN   2018
Intern Engineer
- Maintained base stations and deployed emergency communication vehicles
- Investigated equipment power consumption and identified network issues based on MRO statistics

China Mobile Group Design Institute, Guangdong CN   2017
Intern Assistant
- Summarized commercial solutions of NB-IoT and FDD-LTE (BBU, RRU, microcell)
- Simulated and evaluated FDD/TDD-LTE performance (RSRP, SINR, CSFB) for typical areas

✈ RESEARCH

IRS-Aided SWIPT: Joint Waveform, Active and Passive Beamforming Design   2020
- This project investigates an efficient IRS-aided SWIPT architecture where a multi-carrier multi-antenna AP transmits information and power simultaneously to a single-antenna user. Considering energy harvester nonlinearity, we aim to maximize the rate-energy tradeoff through a joint optimization of the waveform, active and passive beamforming, and power splitting ratio.

☰ SKILLS

- Competent in MATLAB, Linux, Windows, Git, Shell, LaTeX
- Familiar with C, Python, Docker, HTML, CSS, Nginx, Inkscape
- Limited knowledge in Apache, JavaScript, SQL

♡ ABOUT

- Perfectionist, minimalist, explorer, enthusiast, liberal, open-source contributor
- Love anime, pets, Hi-Fi, mathematics, programming, football, cooking, photography
- Host own website, cloud storage, email server, note repository, password manager
- University achievement award (2016), IET student prize (2018)

Last updated on November 28, 2020