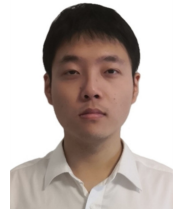


# Wei Wang, Ph.D. candidate

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## Education

- 2021 – now    **Ph.D. (with CSC scholarship)**, *University of Bristol, UK*,  
in Electrical and Electronic Engineering,  
Research area: *Reconfigurable intelligent surface*,  
Supervisor: Prof. Angela Doufexi & Prof. Mark A. Beach.
- 2020 – 2021    **M.Sc. (with Distinction)**, *University of Bristol, UK*,  
in Wireless Communications and Signal Processing.
- 2016 – 2020    **B.Eng.**, *Tianjin University of Technology, China*,  
in Radio Wave Propagation and Antennas.

## Experience

- 2021 – 2024    **Teaching Assistant**, *University of Bristol, UK*,  
1 semester for UG Electronics 2 (EENG26000),  
3 semester for PG Principles of Communication Systems (EENGMO033),  
1 semester for UG&PG Numerical Methods in Matlab (EMAT20920).
- 2022.03 – 2022.08    **Research Assistant**, *University of Bristol, UK*,  
Project WP3: Reconfigurable Intelligent Surface, the Innovate UK/CELTIC-NEXT  
European collaborative research and development project on AIMM (AI-enabled  
Massive MIMO).
- 2022.06 – 2022.07    **Research Assistant**, *University of Bristol, UK*,  
Satellite Passive Radar Propagation Analyst, Faculty of Engineering.


## Research Publications

### In progress & Under review






- 1 “A simultaneously transmitting and reflecting (STAR) RIS for bidirectional transmission with reconfigurable power splitting,” **Under development** for an antenna conference and IEEE TAP.
- 2 **W. Wang**, X. Ou, Z. Ren, W. B. Abbas, S. Dang, A. Doufexi, and M. A. Beach, “Analysis on energy efficiency of RIS-assisted multiuser downlink near-field communications,” *IEEE Transactions on Communications*, **Major revision**.
- 3 **W. Wang**, P. Li, A. Doufexi, and M. A. Beach, “A heuristic-integrated DRL approach for phase optimization in large-scale RISs,” *IEEE Communications Letters*, **Rejected - Resubmission allowed**.

### During PhD

- 1 **W. Wang**, A. Doufexi, and M. A. Beach, “Integer-based pattern synthesis for asymmetric multi-reflection RIS,” in *Proc. IEEE Wireless Communications and Networking Conference (WCNC)*, Dubai, UAE, Apr. 2024, pp. 1–6. [DOI: 10.1109/WCNC57260.2024.10571319](#).
- 2 **W. Wang**, P. Li, A. Doufexi, and M. A. Beach, “DRL-based sidelobe suppression for multi-focus reconfigurable intelligent surface,” in *Proc. 18th European Conference on Antennas and Propagation (EuCAP)*, Glasgow, UK, Mar. 2024, pp. 1–5. [DOI: 10.23919/EuCAP60739.2024.10500993](#).

- 3 **W. Wang**, P. Li, A. Doufexi, and M. A. Beach, "A DRL-based reflection enhancement method for RIS-assisted multi-receiver communications," in *Proc. IEEE 98th Vehicular Technology Conference (VTC2023-Fall)*, Hong Kong, PRC, Oct. 2023, pp. 1–6.  DOI: 10.1109/VTC2023-Fall60731.2023.10333524.

## Before PhD

- 1 G. Wang, X. Xuan, D. Jiang, K. Li, and **W. Wang**, "A miniaturized implantable antenna sensor for wireless capsule endoscopy system," *AEU-International Journal of Electronics and Communications*, vol. 143, p. 154 022, Jan. 2022.  DOI: 10.1016/j.aeue.2021.154022.
- 2 Q. Shi, X. Xuan, H. Nie, Z. Wang, and **W. Wang**, "Antenna sensor based on AMC array for contactless detection of water and ethanol in oil," *IEEE Sensors Journal*, vol. 21, no. 19, pp. 21 503–21 510, Oct. 2021.  DOI: 10.1109/JSEN.2021.3102294.
- 3 **W. Wang**, X. Xuan, W. Zhao, and H. Nie, "An implantable antenna sensor for medical applications," *IEEE Sensors Journal*, vol. 21, no. 13, pp. 14 035–14 042, Jul. 2021.  DOI: 10.1109/JSEN.2021.3068957.
- 4 **W. Wang**, X. Xuan, P. Pan, Y. Hua, H. Zhao, and K. Li, "A low-profile dual-band omnidirectional alford antenna for wearable WBAN applications," *Microwave and Optical Technology Letters*, vol. 62, no. 5, pp. 2040–2046, May 2020.  DOI: 10.1002/mop.32270.
- 5 Q. Wu, X. Xuan, **W. Wang**, K. Li, and H. Zhao, "A miniaturized implantable planar inverted-F antenna for biotelemetry applications at 2.45 GHz industrial, scientific, and medical band," *Microwave and Optical Technology Letters*, vol. 62, no. 1, pp. 391–396, Jan. 2020.  DOI: 10.1002/mop.32022.

## Skills

Programming	 MATLAB, Python, C, $\LaTeX$ .
Antenna Design	 CST Studio Suite, Ansys HFSS.
Languages	 English, Mandarin Chinese.

## Service

2023 – 2025  **Reviewer**, *IEEE TVT*, *IEEE VTC 2025*, *IEEE ICC 2024*, *IEEE ICC 2024*.