XIAOYANG WANG, Ph.D.

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PROFESSIONAL EXPERIENCE

Lecturer in Artificial Intelligence, University of Exeter	2022.12-Present
Postdoctoral Research Associate, University of Bristol	2018.11-2022.11

EDUCATION

University of Electronic Science and Technology of China(UESTC), Chengdu, China

- Ph.D., Signal and Information Processing   2013 - 2018
  Supervisor: Prof. Zhenming Peng
- B.S., Electrical Engineering   2009 - 2013
  B.A., English Literature

University of Bristol, Bristol, UK

- Visiting Ph.D. student, Computer Science   2017 - 2018
  Supervisor: Prof. Dima Damen

RESEARCH SUMMARY

- **20+ peer-reviewed publications** in journals and conferences, including top venues such as IEEE Transactions on Geoscience and Remote Sensing (IF 8.2), IEEE Transactions on Cognitive Communications and Networking (IF 8.6), IEEE Geoscience and Remote Sensing Letters (IF 4.8), Scientific Reports (IF 5.516), IEEE Vehicular Technology Conference (VTC), etc.
- My work has been cited more than **800** times, with an **h-index of 13** (Google Scholar).
- Leading multiple work packages in EPSRC projects (NGCDI, OPERA) and European projects (AIMM).
- Research collaborations with research institutions and industrial partners, including Plymouth Marine Lab, Royal Cornwall Hospital, BT, Certus, Toshiba, Vilicom, and Amazon (UK).
- Currently working with 2 PhD students as lead supervisor, and 3 as co-supervisor.

PROJECTS

Grants

- "Automated Assessment and Triaging of ENT Patient Cases from a Virtual ENT Clinic at Royal Cornwall Hospital."   2024.03-2024.10
  - EPSRC Hub Partnership-building Fund | Co-I | **£10,000**
  - Project partners: Royal Cornwall Hospital, Certus Technology
- "Wildfire Spreading Prediction Using Graph Neural Networks."   2024.06-2024.10
  - EPSRC DTP Summer Internships Fund | PI | **£5,100**
- "Future of AI Awards 2024: Collaborate, Debate, Invent."   2024.06
  - ECRN Enhancement Awards | Co-I | **£1,562**
- "GenAI-Enabled Cross-Domain Creation Workshop."   2024.05
  - QUEX Institute Workshop Grant | Co-I | **AU$6,500**
  - Project partners: The University of Queensland
- "Modelling Multimodal Human Interaction: A Computationally Rational Perspective."   2024-2028
  - EPSRC DTP Doctoral Prize | PI
- "Bristol Reinforcement Learning Symposium."   2022.06

- SCEEM Post-pandemic Research Restart Grant | PI |**£1,300**
- "Playing with Alchemy - A Benchmark and Evaluation for Meta-Learning."   2021.07-2021.10
  - Post-Doctoral Research Prize, University of Bristol | PI | **£5,000**

Other Projects

- **"NG-CDI: Next Generation Converged Digital Infrastructure"**   2018.11 - 2023.10
  - This project aims at bringing intelligence to the next-generation communication networks through *Machine Learning* approaches.
  - I work as the *leading researcher* in the Bristol team, collaborating with the industrial partner *BT* and four other universities.
  - Responsible for **2** (out of 9) work packages, including quarterly reports, annual deliverables and plenary meetings.
  - Give formal/informal talks and tutorials to industrial audiences without a computer science/machine learning background.
  - Presence in the spotlight video as a recognition of my contribution.

AWARDS

- Winner of Women in Engineering Day (INWED) 2024 Oral Presentation Award, UoE   2024.06
- Bristol Plus Award, University of Bristol   2018
- China Scholarship Council Ph.D. Fellowship   2017 - 2018

SERVICES

- **EPSRC - Women's Engineering Society (WES) Ambassador**, UK   2023 - Present
- Guest Editor, Sensors   2022 - Present
- Conferences Reviewer: Conference on Computer Vision and Pattern Recognition (*CVPR*), International Conference on Computer Vision (*ICCV*), European Conference on Computer Vision (*ECCV*), etc.
- Journals Reviewer: IEEE Transactions on Geoscience and Remote Sensing, IEEE Transactions on Image Processing, IEEE Signal Processing Letters, etc.
- PhD thesis examiner.
- TechUPWomen Mentor   2024

LEADERSHIP

Programme Lead, MSc in Generative AI   2024.09 - Present
Event Organiser

- Organised the "Bristol University Reinforcement Learning Symposium" on June 2022, through the "SCEEM Post-pandemic Research Restart Events Scheme".
- Co-organise the "GenAI-Enabled Cross-Domain Creation Workshop" through the QUEX Institute Workshop Grant. Co-organise the "Future of AI Awards 2024" event through the Early Career Research Network Enhancement Award.

TALKS

- "Strengthening EDI Practitioner Skillset with Modern Generative AI"   2024.03.07
  AdvanceHE EDI Conference 2024, Liverpool, UK
- "Exploring Conditional Generative Models for Reinforcement Learning"   2023.10.06
  Computer Science Seminar Series, Exeter, UK
- "Generating Solutions: Conditional Generative Models for Sequential Decision Making" 2023.04.20
  Amazon Seminar, London, UK
- "AI-Enabled Network Design for Virtualized RAN"   2023.04.18
  NG-CDI Tech Talk, Exeter, UK (online)
- "Advanced Topics in Deep Learning"   2022.02.08

NG-CDI Tech Talk (joint talk), Bristol, UK (online)
- "Deep Reinforcement Learning for Future Open RAN"   2021.09.15
BT/NG-CDI: Spotlight on the Future of Networks, Bristol, UK (online)
- "Future Open RAN – Intelligence and Challenges"   2021.04.01
SCEEM Research Conference, University of Bristol, Bristol, UK (online)

SUPERVISION & TEACHING

Supervision   2022-Present
- Supervising PhD Students as Primary and Co-Supervisor.
- Supervised 10+ Master students and Undergraduate students.

Module Lead, "Machine Learning"   2023, 2024

Module Lead, "Introduction to Data Science"   2023, 2024

Lecturer, "Data Structure and Algorithms"   2023

Assistant Lecturer, "Introduction to Artificial Intelligence"   2020, 2021