

Bo Tan

Degrees

- **2008-2013** **University of Edinburgh, UK**
 - **PhD** in Digital Communications, granted in 23/11/2013
 - Thesis: Statistical Channel Modelling and Relay for Powerline Communications
- **2005-2008** **Beijing University of Posts and Telecommunications, China**
 - **MSc** in Circuit and System for Wireless Communications
 - Thesis: Detection Method for MIMO System and Its Implementation on FPGA
- **2000-2004** **Beijing University of Posts and Telecommunications, China**
 - **BSc** in Communication Engineering

Employment

- **2019-Present** **Tenure Track Assistant Professor** **Tampere University, Finland**
 - Research: Signal processing in radar and communications, machine learning, healthcare, privacy & security
 - Teaching: Radar and professional communications
- **2022** **Honorary Senior Research Fellow** **Department of Security and Crime Science, UCL, UK**
- **2017-2019** **Lecturer (Assistant Professor)** **Coventry University, UK**
 - Research: robotic sensing
 - Teaching: Analog and digital electronics
- **2015-2016** **Postdoc Researcher** **University of Bristol, UK**
 - Research: wireless sensing and indoor localization
 - Funding Source: UK EPSRC IRC SPHERE project lead by Prof Ian Craddock
- **2012-2015, 2016-2017** **Postdoc Researcher** **University College London (UCL) , UK**
 - Research: radar, robotic sensing and indoor mapping
 - Funding Source: EU ERC CHAOSNETS Project lead by Prof Kyle Jamieson (Princeton University), and UK EPSRC Discovery to Use Award lead by Prof Karl Woodbridge, Dr Kevin Chetty
- **2008** **Marketing researcher** **Vodafone China, Beijing, China**
- **2005-2007** **Hardware Engineer** **StarPoint Communications, R&D, Beijing, China**

Grants

- **Business Finland, Nokia Veturi Program, 5G-PSS** (PI, with ENS Faculty and SoC Group, €940K, 2022~2024): Algorithmic design of 5G positioning, sensing and security functions in SoC
- **Academy of Finland, ICT 2023, SPHERE-DNA** (PI, with TAVIDS consortium, €850K, 2022~2025): Secure and Privacy Preserving Healthcare in the Residential Environment with Multimodal Distributed Data and Decentralized AI
- **Academy of Finland, ACCESS** (PI, €670K, 2021~25): Autonomous Communication Converged with Efficient Sensing for UAV Swarms
- **EU H2020, DIOR** (PI, €1.6m, 2021~25): Deep Intelligent Optical and Radio Communication Networks
- **EU H2020, NewSense** (Co-I, €943K, 2021~23): 5G Network & mmWave Radar for Airport Surveillance
- **Innovate UK, Meridian3** (Co-I, £500K, 2019~20): Sensing in Autonomous Parking & Digital Twin (*quite due to job change*)
- **UK EPSRC, OPERA** (Co-I, £1.3M, 2019~22): Opportunistic Radio Sensing for Healthcare (*quite due to job change*)
- **Coventry University DDRI Grant** (PI, £75K, 2017~20): Intelligent sensing for care robots
- **UK EPSRC, BITE** (£10K, 2014): Industrial exchange funding for short-range positioning (u-Blox)

Invited Talks

- 2020 Joint Radio Sensing and Communications, Delft University of Technology, Netherland
- 2019 Machine Learning in Radio Signal Processing and Wireless Sensing, Newcastle University, UK
- 2019 Using Wireless Signal for Cyber-Physical Applications, Fudan University, China
- 2018 Using Wireless Signal for Cyber-Physical Applications, Institute of Telecommunications, Portugal
- 2018 Signals of Opportunity for Cyber-Physical Applications, Amazon, Cambridge, UK,

- 2018 Short Range Radar and Applications in Healthcare and Robotics, in EMSIG Meeting, UK
- 2018 Cognitive Hybrid Wireless Sensing in Healthcare and Robotic, Bristol Robotic Laboratory, UK
- 2017 WiFi Sensing and Machine Learning Systems to Monitor Health. in NIDays, London, UK
- 2016 Interpreting Human Movement with Indoor RF, in Radar Group, University College London, UK

Services: Vice Chair, IEEE Finland AP/MTT/ED-S Chapter.

Supervision:

- **1 postdoc research fellow**
- **1 completed PhD** in Coventry University, UK
- **3 PhDs in supervision and 2 PhDs in co-supervision** in Tampere University, Finland, **1 PhD** in co-supervision in Coventry University, UK.
- **3 completed MSc** theses and **2 ongoing MSc** theses in Tampere University, Finland

Publication: can be seen from [Google Scholar](#)