

Tina Wu

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SKILLS

- **Certifications:** GIAC Certified Forensic Analyst (GCFA) - 2014-2018.
- **Programming Languages:** Proficient in Matlab, R, TeX and also basic ability with Python and machine learning (Scikit-learn).
- **General Business Skills:** Good presentation skills and works well in a team.
- **Other:** Can write well organised and structured technical reports and research papers.

EDUCATION

UNIVERSITY OF OXFORD

PhD in Cyber Security

Thesis: Digital Forensic Investigation of IoT Devices: Tools and Methods

Oxford, UK
Oct 2014 - Sep 2020

UNIVERSITY OF DERBY

MSc in Computer Security and Forensics (Merit)

Derby, UK
Nov 2010 - Nov 2011

NOTTINGHAM TRENT UNIVERSITY

BSc in Forensic Science (2.1)

Nottingham, UK
Jul 2007 - July 2010

EXPERIENCE

OFGEM

Cyber Security Researcher

- Work closely with academia and Ofgem's energy operators in researching cyber security issues.
- Using agile project methodologies to work on real-world research problems.

Cardiff, UK
Apr 2021 - Present

UNIVERSITY OF PLYMOUTH

Industrial Research Fellow in Penetration Testing

- Working on the Cyber-SHIP project and penetration testing maritime technology, including radars, voyage data recorders (VDR), Electronic Chart Display and Information Systems (ECDIS), Automatic Identification Systems (AIS), and communications devices.
- Write research reports and presentations to external parties.

Plymouth, UK
October 2020 - May 2021

AIRBUS GROUP

Research Engineer in Cyber Security/Forensics

- Build relationships with academia and Airbus Group business units.
- Manage various research projects related to SCADA/CNI cyber security, forensics, penetration testing, and malware analysis.
- Manage interns and supervision of PhD and MSc student's workload and assigning research tasks.

Newport, UK
Oct 2012 - Oct 2014

HUMBERSIDE POLICE HI-TECH CRIME UNIT

Digital Forensic Volunteer

This role involved using different forensic software to analyse various media devices.

Hull, UK
May 2012 - Aug 2012

PUBLICATIONS

- Wu, T., Breiting, F., Niemann, S. (2021). **IoT network traffic analysis: opportunities and challenges for forensic investigators**, Accepted for publication at the Digital Forensic Research Workshop (DFRWS) APAC 2020 and will be published on September 2020. [Conference]
- Wu, T., Breiting, F., O'Shaughnessy, S. (2020). **Digital Forensic Tools: recent advances and enhancing the status quo**, Accepted at Forensic Science International: Digital Investigation (FSIDI) Volume 34, 2020, 300999, ISSN 2666-2817, [Journal]
- Wu, T., Breiting, F., Baggili, I. (2019). **IoT Ignorance is Digital Forensics Research Bliss: A Survey to Understand IoT Forensics Definitions, Challenges and Future Research Directions**. In Proceedings of the 14th International Conference on Availability, Reliability and Security (ARES '19). Association for Computing Machinery, New York, NY, USA, Article 46, 1-15. [Conference]
- Wu, T., Martin, A. (2018). **Bluetooth Low Energy Used for Memory Acquisition from Smart Health Care Devices**, 2018 17th IEEE International Conference On Trust, Security And Privacy In Computing And Communications/ 12th IEEE International Conference On Big Data Science And Engineering (TrustCom/BigDataSE), 2018, pp. 1256-1261. [Conference]
- Wu, T., Nurse, J. (2015). **Exploring The Use Of PLC Debugging Tools For Digital Forensic Investigations On SCADA Systems**, Journal of Digital Forensics, Security and Law: Vol. 10 : No. 4 , Article 7. [Conference]
- Wu, T., Disso, J., Jones, K., Campos, A. (2013). **Towards a SCADA Forensics Architecture**, In Proceedings of the 1st International Symposium on ICS SCADA Cyber Security Research 2013 (ICS-CSR 2013). BCS, Swindon, GBR, 12-21. [Conference]

RESEARCH PROJECTS

- **Cyber-SHIP Lab**

University of Plymouth, 2020

I was the lead researcher in penetration maritime systems.

- **WISE(Welsh Foundation Project))**

Airbus Group, 2013

I was the lead researcher representing our team, collaborating with both Cardiff University and University of South Wales. I was tasked to carry out research in the use of Security Incident Event Management (SIEM) system for critical infrastructures.

- **European Control System Security Incident Analysis Network (ECOSSIAN) FP7 EU Project**

Airbus Group, 2013

I was lead researcher for Airbus UK in this project collaborating with over 20 companies across the EU. My main role was to research and implement Intrusion Detection Systems(IDS) for critical infrastructures.