

# Panagiotis Andriotis

*PhD, SFHEA, GCFE, GASF*

☎ +44 121 414 4782

✉ [p.andriotis@bham.ac.uk](mailto:p.andriotis@bham.ac.uk)

📄 <https://andriotisp.github.io/>

Social: <https://linktr.ee/panosandriotis>

*Assistant Professor in Computer Science*

*Affiliations: University of Birmingham, U.K. & Dubai, U.A.E.*

*National Institute of Informatics, Tokyo, Japan*

## Education

- 2012–2016 **PhD in Computer Science**, *University of Bristol, U.K.*,  
Dissertation: "Towards Task Automation for Mobile Device Forensics"
- 2010–2011 **MSc (Distinction) in Computer Science**, *University of Bristol, U.K.*,  
Thesis: "Steganography Detection with Benford"
- 1999–2004 **BSc in Mathematics**, *National and Kapodistrian University of Athens, Greece*,

## Professional Qualifications

- 2021–Present **GIAC - GASF**, *Global Information Assurance Certification - Advanced Smartphone Forensics*, ANSI ISO/IEC 17024:2012,
- 2020–Present **GIAC - GCFE**, *Global Information Assurance Certification - Certified Forensic Examiner*, ANSI ISO/IEC 17024:2012,
- 02/2018 **Postgraduate Certificate (with Distinction) in Teaching and Learning in Higher Education**, *University of the West of England, U.K.*, PGCERT

## Certifications

- 2022–Present **OpenText**, *OpenText Course Completion - Foundations in Digital Forensics with EnCase 2022*, Online
- 2022–Present **Microsoft**, *Microsoft Certified: Security, Compliance, and Identity Fundamentals*, Online
- 2021–Present **Microsoft**, *Microsoft Certified: Azure Fundamentals*, Online
- 2020–Present **OpenText Practitioner**, *OpenText Practitioner - Building an Investigation with EnCase 20*, Online

## Professional Memberships - Fellowships

- Since 2023 **UKRI Talent Peer Review College (PRC)**, *Fellow*, U.K.,
- Since 2022 **Higher Education Academy**, *Senior Fellow*, U.K., (SFHEA)
- Since 2021 **International Federation for Information Processing (IFIP) Working Group 11.12 (Human Aspects of Information Security and Assurance)**, *Member*,

Since 2021 **SPRITE Network Plus (SPRITE+)**, *Expert Fellow*,  
Since 2021 **Association for Computing Machinery ACM**, *Member*,  
2018–2022 **Higher Education Academy**, *Fellow*,  
Since 2016 **Institute of Electrical and Electronics Engineers (IEEE)**, *Member*,  
Since 2017 **JSPS Alumni Association of the UK and RoI**, *Member*,  
Since 2016 **Internet Society, ISOC**, *Member*

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## Leadership Roles

2023 **Programme Design Committee (UoB Dubai lead)**, *MSc Cyber Security (Dubai)*, University of Birmingham  
2021–2019 **Programme Leader**, *BSc(Hons) Cyber Security and Digital Forensics*, University of the West of England  
2021–2017 **Module Leader**, *UFCFP4-30-1: Computer Crime and Digital Evidence*, University of the West of England

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## Professional Experience

2024–2025 **Toshiba Fellow 2024**, *Toshiba Fellowship Programme (TFP)*, Toshiba Corporation, Corporate R&D Centre, Kawasaki, Japan  
2023–2024 **Visiting Lecturer**, *National Institute of Informatics*, Tokyo, Japan  
09/2022–Present **Assistant Professor**, *University of Birmingham*, Birmingham, U.K., (Flying Faculty)  
09/2021–Present **External Examiner**, *Cardiff Metropolitan University*, Higher Diploma in Network Technology and Cyber Security at International College of Business and Technology - Sri Lanka, Cardiff, U.K.  
10/2021–07/2022 **Visiting Researcher**, *Japan Society for the Promotion of Science, Postdoctoral Fellowship for Overseas Researchers (Standard Pathway)*, National Institute of Informatics, Tokyo, Japan  
03/2017–08/2017 **Visiting Researcher**, *Japan Society for the Promotion of Science, Postdoctoral Fellowship for Overseas Researchers (Short-Term Pathway)*, National Institute of Informatics, Tokyo, Japan  
09/2016–08/2022 **Senior Lecturer in Computer Forensics and Security**, *University of the West of England*, U.K.  
03/2016–08/2016 **Research Associate**, *“Inferring the Purpose of Network Activities”*, EPSRC grant EP/N008448/1, P.I.: Dr Gianluca Stringhini, University College London (UCL), U.K.  
11/2015–01/2016 **Forensic Cyber Security Research Expert**, *Enhanced Knowledge Transfer Partnership (KTP)*, De Montfort University (DMU) and Airbus, U.K.  
10/2014–06/2015 **Research Assistant**, *“NIFTy: Novel Image/photo Forensic Tools for fighting against child pornography”*, EU DG Home Affairs - ISEC (Prevention of and Fight against Crime)/INT (Illegal Use of Internet) programme, University of Bristol, U.K.

- 01/2012–09/2014 **Research Assistant**, *“ForToo: Forensic Tools”, EU Prevention of and Fight against Crime Programme “Illegal Use of Internet” - ISEC 2010 Action Grants, grant ref. HOME/2010/ISEC/AG/INT-002*, University of Bristol, U.K.  
[Non-Academic](#)
- 06/2006–07/2009 **Tutor/Teacher–Mathematics**, *Secondary Education*, Private and Public sector, Athens, Greece
- 12/2007–09/2008 **Bank Teller**, *Citibank plc.*, Athens, Greece
- 05/2005–05/2006 **Conscript Sergeant**, *Hellenic Army*, Compulsory Service, Lesvos, Greece
- 10/2000–05/2005 **Customer Support**, *Vivartia*, Various locations in Athens, Greece

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## Awards – Scholarships – Internships

- 04/2021 **The Impact Award**, *UWE Bristol Student Union*, Student Experience Awards 2021
- 04/2021 **Nominee: The Outstanding Teaching Award**, *UWE Bristol Student Union*, Student Experience Awards 2021
- 01/2021 **Lethal Forensicator**, *SANS FOR585: Smartphone Forensic Analysis In-Depth*, SANS Lethal Forensicator Coin Holder, January 2021
- 07/2020–07/2022 **Internal Funding Award**, *FET Accelerator Programme*, Faculty of Environment and Technology, University of the West of England
- 07/2020 **Best Paper Award**, *2nd International Conference on HCI for Cybersecurity, Privacy and Trust, HCI International 2020*, for the paper entitled “To Allow, or Deny? That is the Question”, Copenhagen, Denmark – virtual
- 02/2020 **Nominee: The Outstanding Teaching Award**, *UWE Bristol Student Union*, Student Experience Awards 2020
- 11/2017 **2nd Place Prize**, *Cyber Security Awareness Week 2017, CSAW’17 Applied Research, Europe*, for the paper “MaMaDroid: Detecting Android Malware by Building Markov Chains of Behavioral Models”
- 08/2015 **Conference Travel Grant**, *Alumni Foundation*, University of Bristol
- 02/2015–04/2015 **NII International Internship Program 2014–2015**, *National Institute of Informatics*, LDEAR Lab, Tokyo, Japan
- 08/2014–09/2014 **Global Scholarship Programme for Research Excellence 2014-15**, *Chinese University of Hong Kong (CUHK)*, WISC Web Intelligence and Social Computing Lab, Hong Kong, China
- 05/2014 **Student Scholarship**, *2014 HoneyNet Project Workshop*, Warsaw, Poland
- 01/2014 **Best PhD Poster Award**, *1st Inaugural PhD in Systems Research Conference*, Systems Centre, University of Bristol, Bristol, U.K.
- 07/2013–09/2013 **NII International Internship Program 2013–2014**, *National Institute of Informatics*, LDEAR Lab, Tokyo, Japan
- 06/2013 **Best PhD Poster Award**, *4th Annual IDC in Systems Research Conference*, Systems Centre, University of Bristol, Bristol, U.K.

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## Funding

- 10/2023 **National Research Centre on Privacy, Harm Reduction and Adversarial Influence Online**, *4th REPHRAIN Strategic Funding call*, “MAFFIN – Mapping Fuzzy Finfluencers’ Landscape”, Funding: £75.5K –P.I.
- 08/2023 **Toshiba Corporation**, *Toshiba Fellowship Programme (TFP)*, “System Security for Industrial Control Systems”, Funding: JPY12M, (or approx. £66.5K)–P.I.
- 07/2023 **University of Birmingham**, *Paul & Yuanbi Ramsay Research Fund*, “Authentication and Side-Channel Attacks in Mixed Reality Environments”, Funding: £6,700–P.I.
- 04/2023 **University of Birmingham**, *Birmingham International Engagement Fund (BIEF)*, Funding: £2,900
- 03/2023 **National Institute of Informatics**, *Support for Visiting Lectureship*, Funding: JPY400K, (or approx. £2,300)–P.I.
- 06/2021 **University of the West of England**, *PhD studentship: funded by the Faculty of Environment and Technology*, “A transferable and AI-enabled software security framework”, Funding: £107,100–Director of Studies, : now external advisor
- 07/2020 **Japan Society for the Promotion of Science**, *JSPS Postdoctoral Fellowship for Research in Japan, JSPS/OF199*, “Malicious entity detection using fine-grained DNA-inspired behavioural modelling”, Funding: JPY4,95M (or approx. £32,000)–P.I.
- 03/2020 **Royal Society**, *International Exchanges 2019, R3, IES\R3\193157*, “A Face you can Trust”, Funding: £2,900–P.I.
- 03/2018 **Royal Society**, *International Exchanges 2017, R3, IES\R3\170267*, “Embedding Privacy on Social Media Streaming Services”, Funding: £2,950–P.I.
- 08/2017–08/2018 **Vice-Chancellor’s Early Career Researcher Development Awards 2017-18**, *University of the West of England*, “An Adaptive, User-driven and Privacy-aware Recommendation System for Online App Stores”, Funding: £12,640–P.I.
- 11/2017 **Great Britain Sasakawa Foundation**, *Great Britain Sasakawa Foundation Small Grants, Grant Application No. 5303*, Funding: £1,600–P.I.
- 03/2017–08/2017 **Japan Society for the Promotion of Science**, *JSPS Postdoctoral Fellowship for Research in Japan, JSPS/OF282*, “Spam Detection in Social Media”, Funding: JPY2,45M, (or approx. £16,000)–P.I.
- Total**, approx. £329K

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## Publications

As of November 13, 2023 (reverse chronological order).

\* indicates names of advised students/postgraduates.

† indicates my conference presentations.

Total number of peer-reviewed publications: 33

Total number of citations (Google Scholar): 1,363

H-index (Google Scholar): 15

i10-index (Google Scholar): 19

**ORCID: 0000-0002-3490-3123**

### Journal Articles (Peer Reviewed)

- [J1] **P. Andriotis**<sup>†</sup>, M. Kirby<sup>\*</sup>, and A. Takasu. "Bu-Dash: A Universal and Dynamic Graphical Password Scheme (Extended Version)". In: *International Journal of Information Security* 22 (2023), pp. 381–401. DOI: 10.1007/s10207-022-00642-2.
- [J2] A. McCarthy<sup>\*</sup>, E. Ghadafi, **P. Andriotis**, and P. Legg. "Defending against adversarial machine learning attacks using hierarchical learning: A case study on network traffic attack classification". In: *Journal of Information Security and Applications* 72 (2023), p. 103398. DOI: <https://doi.org/10.1016/j.jisa.2022.103398>.
- [J3] A. McCarthy<sup>\*</sup>, E. Ghadafi, **P. Andriotis**, and P. Legg. "Functionality-Preserving Adversarial Machine Learning for Robust Classification in Cybersecurity and Intrusion Detection Domains: A Survey". In: *Journal of Cybersecurity and Privacy* 2.1 (2022), pp. 154–190. DOI: 10.3390/jcp2010010.
- [J4] S. Nemorin, H. M. Ayerakwa, A. Vlachidis, and **P. Andriotis**. "AI hyped? A horizon scan of discourse on Artificial Intelligence in Education (AIED) and development". In: *Learning, Media and Technology* 0.0 (2022), pp. 1–14. DOI: 10.1080/17439884.2022.2095568.
- [J5] S. Li, S. Zhao, P. Yang, **P. Andriotis**, L. Xu, and Q. Sun. "Distributed consensus algorithm for events detection in cyber-physical systems". In: *IEEE Internet of Things Journal* 6.2 (2019), pp. 2299–2308. DOI: 10.1109/JIOT.2019.2906157.
- [J6] L. Onwuzurike, E. Mariconti, **P. Andriotis**, E. D. Cristofaro, G. Ross, and G. Stringhini. "MaMaDroid: Detecting Android Malware by Building Markov Chains of Behavioral Models (Extended Version)". In: *ACM Transactions on Privacy and Security* 22.2 (2019). DOI: 10.1145/3313391.
- [J7] **P. Andriotis**, G. Stringhini, and M. A. Sasse. "Studying users' adaptation to Android's run-time fine-grained access control system". In: *Journal of Information Security and Applications* 40 (2018), pp. 31–43. DOI: 10.1016/j.jisa.2018.02.004.
- [J8] **P. Andriotis**, G. Oikonomou, A. Mylonas, and T. Tryfonas. "A study on usability and security features of the Android pattern lock screen". In: *Information and Computer Security* 24.1 (2016), pp. 53–72. DOI: 10.1108/ICS-01-2015-0001.
- [J9] **P. Andriotis**, G. Oikonomou, T. Tryfonas, and S. Li. "Highlighting Relationships of a Smartphone's Social Ecosystem in Potentially Large Investigations". In: *IEEE Transactions on Cybernetics* 46.9 (2016), pp. 1974–1985. DOI: 10.1109/TCYB.2015.2454733.
- [J10] S. Li, T. Tryfonas, G. Russell, and **P. Andriotis**. "Risk Assessment for Mobile Systems Through a Multilayered Hierarchical Bayesian Network". In: *IEEE Transactions on Cybernetics* 46.8 (2016), pp. 1749–1759. DOI: 10.1109/TCYB.2016.2537649.
- [J11] **P. Andriotis**, G. Oikonomou, and T. Tryfonas. "JPEG steganography detection with Benford's Law". In: *Digital Investigation* 9.3 (2013), pp. 246–257. DOI: 10.1016/j.diin.2013.01.005.

- [J12] **P. Andriotis**, Z. Tzermias, A. Mpampaki, S. Ioannidis, and G. Oikonomou. "Multilevel visualization using enhanced social network analysis with smartphone data". In: *International Journal of Digital Crime and Forensics (IJDCF)* 5.4 (2013), pp. 34–54. DOI: 10.4018/ijdcf.2013100103.

#### Conference Proceedings (Peer Reviewed)

- [C1] **P. Andriotis**<sup>†</sup>, M. Kirby<sup>\*</sup>, and A. Takasu. "Bu-Dash: A Universal and Dynamic Graphical Password Scheme". In: *HCI for Cybersecurity, Privacy and Trust*. Ed. by A. Moallem. Cham: Springer International Publishing, 2022, pp. 209–227. DOI: 10.1007/978-3-031-05563-8\_14.
- [C2] A. McCarthy<sup>\*</sup>, **P. Andriotis**, E. Ghadafi, and P. Legg. "Feature Vulnerability and Robustness Assessment against Adversarial Machine Learning Attacks". In: *2021 International Conference on Cyber Situational Awareness, Data Analytics and Assessment (CyberSA)*. 2021, pp. 1–8. DOI: 10.1109/CyberSA52016.2021.9478199.
- [C3] **P. Andriotis**<sup>†</sup> and A. Takasu. "To Allow, or Deny? That is the Question". In: *HCI for Cybersecurity, Privacy and Trust*. Ed. by A. Moallem. Cham: Springer International Publishing, 2020, pp. 287–304. DOI: 10.1007/978-3-030-50309-3\_20.
- [C4] K. Anastasopoulou, S. Kokolakis, and **P. Andriotis**. "Privacy Decision-Making in the Digital Era: A Game Theoretic Review". In: *Human Aspects of Information Security, Privacy and Trust*. Ed. by T. Tryfonas. Cham: Springer International Publishing, 2017, pp. 589–603. DOI: 10.1007/978-3-319-58460-7\_41.
- [C5] **P. Andriotis**<sup>†</sup>, S. Li, T. Spyridopoulos, and G. Stringhini. "A Comparative Study of Android Users' Privacy Preferences Under the Runtime Permission Model". In: *Human Aspects of Information Security, Privacy and Trust*. Ed. by T. Tryfonas. Cham: Springer International Publishing, 2017, pp. 604–622. DOI: 10.1007/978-3-319-58460-7\_42.
- [C6] E. Mariconti, L. Onwuzurike, **P. Andriotis**, E. D. Cristofaro, G. J. Ross, and G. Stringhini. "MaMaDroid: Detecting Android Malware by Building Markov Chains of Behavioral Models". In: *24th Network and Distributed System Security Symposium (NDSS 2017)*. 2017, pp. 1–15. DOI: 10.14722/ndss.2017.23353.
- [C7] O. Aboluwarin<sup>\*</sup>, **P. Andriotis**<sup>†</sup>, A. Takasu, and T. Tryfonas. "Optimizing Short Message Text Sentiment Analysis for Mobile Device Forensics". In: *Advances in Digital Forensics XII*. Ed. by G. Peterson and S. Sheno. Cham: Springer International Publishing, 2016, pp. 69–87. DOI: 10.1007/978-3-319-46279-0\_4.
- [C8] **P. Andriotis**<sup>†</sup> and T. Tryfonas. "Impact of User Data Privacy Management Controls on Mobile Device Investigations". In: *Advances in Digital Forensics XII*. Ed. by G. Peterson and S. Sheno. Cham: Springer International Publishing, 2016, pp. 89–105. DOI: 10.1007/978-3-319-46279-0\_5.
- [C9] T. Tryfonas, M. Carter, T. Crick, and **P. Andriotis**. "Mass Surveillance in Cyberspace and the Lost Art of Keeping a Secret". In: *Human Aspects of Information Security, Privacy, and Trust*. Ed. by T. Tryfonas. Cham: Springer International Publishing, 2016, pp. 174–185. DOI: 10.1007/978-3-319-39381-0\_16.



- [C10] **P. Andriotis<sup>†</sup>** and G. Oikonomou. "Messaging Activity Reconstruction with Sentiment Polarity Identification". In: *Human Aspects of Information Security, Privacy, and Trust*. Ed. by T. Tryfonas and I. Askoxylakis. Cham: Springer International Publishing, 2015, pp. 475–486. DOI: 10.1007/978-3-319-20376-8\_42.
- [C11] **P. Andriotis<sup>†</sup>**, T. Tryfonas, G. Oikonomou, and I. King. "A Framework for Describing Multimedia Circulation in a Smartphone Ecosystem". In: *Advances in Digital Forensics XI*. Ed. by G. Peterson and S. Shenoi. Cham: Springer International Publishing, 2015, pp. 251–267. DOI: 10.1007/978-3-319-24123-4\_15.
- [C12] S. Li, J. Chen, T. Spyridopoulos, **P. Andriotis**, R. Ludwiniak, and G. Russell. "Real-Time Monitoring of Privacy Abuses and Intrusion Detection in Android System". In: *Human Aspects of Information Security, Privacy, and Trust*. Ed. by T. Tryfonas and I. Askoxylakis. Cham: Springer International Publishing, 2015, pp. 379–390. DOI: 10.1007/978-3-319-20376-8\_34.
- [C13] H. Read, K. Xynos, I. Sutherland, F. Roarson, **P. Andriotis**, and G. Oikonomou. "An Extensible Platform for the Forensic Analysis of Social Media Data". In: *Human Aspects of Information Security, Privacy, and Trust*. Ed. by T. Tryfonas and I. Askoxylakis. Cham: Springer International Publishing, 2015, pp. 404–414. DOI: 10.1007/978-3-319-20376-8\_36.
- [C14] **P. Andriotis<sup>†</sup>**, A. Takasu, and T. Tryfonas. "Smartphone Message Sentiment Analysis". In: *Advances in Digital Forensics X*. Ed. by G. Peterson and S. Shenoi. Berlin, Heidelberg: Springer Berlin Heidelberg, 2014, pp. 253–265. DOI: 10.1007/978-3-662-44952-3\_17.
- [C15] **P. Andriotis<sup>†</sup>**, T. Tryfonas, and G. Oikonomou. "Complexity Metrics and User Strength Perceptions of the Pattern-Lock Graphical Authentication Method". In: *Human Aspects of Information Security, Privacy, and Trust*. Ed. by T. Tryfonas and I. Askoxylakis. Cham: Springer International Publishing, 2014, pp. 115–126. DOI: 10.1007/978-3-319-07620-1\_11.
- [C16] **P. Andriotis<sup>†</sup>**, T. Tryfonas, G. Oikonomou, S. Li, Z. Tzermias, K. Xynos, H. Read, and V. Prevelakis. "On the Development of Automated Forensic Analysis Methods for Mobile Devices". In: *Trust and Trustworthy Computing*. Ed. by T. Holz and S. Ioannidis. Cham: Springer International Publishing, 2014, pp. 212–213. DOI: 10.1007/978-3-319-08593-7\_17.
- [C17] **P. Andriotis<sup>†</sup>**, T. Tryfonas, G. Oikonomou, T. Spyridopoulos, A. Zaharis, A. Martini, and I. Askoxylakis. "On Two Different Methods for Steganography Detection in JPEG Images with Benford's Law". In: *Security and Protection of Information-SPI 2013*. Vol. 7. Brno University of Defence. 2013, pp. 3–14.
- [C18] **P. Andriotis<sup>†</sup>**, T. Tryfonas, G. Oikonomou, and C. Yildiz. "A Pilot Study on the Security of Pattern Screen-lock Methods and Soft Side Channel Attacks". In: *Proceedings of the Sixth ACM Conference on Security and Privacy in Wireless and Mobile Networks*. WiSec '13. Budapest, Hungary: ACM, 2013, pp. 1–6. DOI: 10.1145/2462096.2462098.

#### Workshop Proceedings (Peer Reviewed)

- [W1] **P. Andriotis<sup>†</sup>** and A. Takasu. "Emotional Bots: Content-based Spammer Detection on Social Media". In: *2018 IEEE International Workshop on Information Forensics and Security (WIFS)*. 2018, pp. 1–8. DOI: 10.1109/WIFS.2018.8630760.

- [W2] **P. Andriotis<sup>†</sup>**, M. A. Sasse, and G. Stringhini. "Permissions snapshots: Assessing users' adaptation to the Android runtime permission model". In: *2016 IEEE International Workshop on Information Forensics and Security (WIFS)*. 2016, pp. 1–6. DOI: 10.1109/WIFS.2016.7823922.
- [W3] **P. Andriotis<sup>†</sup>**, G. Oikonomou, and T. Tryfonas. "Forensic analysis of wireless networking evidence of Android smartphones". In: *2012 IEEE International Workshop on Information Forensics and Security (WIFS)*. 2012, pp. 109–114. DOI: 10.1109/WIFS.2012.6412634.

#### Miscellaneous

- [M1] J. R. Nurse, F. Vargas, N. Hassan, D. Wang, **P. Andriotis**, A. Ghenai, K. Jaidka, E. Mustafaraj, K. Joseph, and B. F. Welles. *Towards A Diverse, Inclusive, Accessible and Equitable AAAI International Conference on Web and Social Media (ICWSM)*. 2021. DOI: 10.36190/2021.00.
- [M2] **P. Andriotis<sup>†</sup>**, T. Tryfonas, and Z. Yu\*. *POSTER: Breaking the Android Pattern Lock Screen with Neural Networks and Smudge Attacks*. presented at the 7th ACM Conference on Security & Privacy in Wireless and Mobile Networks (WiSec'14). Oxford, United Kingdom, 2014.

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#### Conference and Track Chair Service

- 06/2022 **Publication & Technical Chair**, *The 8th International Conference on Cyber Security, Privacy in Communication Networks (ICCS - 2022)*, December 2022, Cardiff Metropolitan University, U.K. - Online
- 03/2021 **Publication & Technical Chair**, *The 7th International Conference on Cyber Security, Privacy in Communication Networks (ICCS - 2021)*, December 2021, Cardiff Metropolitan University, U.K. - Online
- 01/2021 **Global Equity Chair**, *The 15th International AAAI Conference on Web and Social Media (ICWSM-2021)*, June 2021, Atlanta, GA, USA - Virtual
- 07/2017 **Board Member**, *5th International Conference on Human Aspects of Information Security, Privacy and Trust, HCI International 2017*, July 2017, Vancouver, Canada
- 07/2017 **Parallel Session Organiser & Chair**, *"Advances in Human Aspects of Cyber Security", 5th International Conference on Human Aspects of Information Security, Privacy and Trust, HCI International 2017*, July 2017, Vancouver, Canada
- 07/2016 **Board Member**, *4th International Conference on Human Aspects of Information Security, Privacy and Trust, HCI International 2016*, July 2016, Toronto, Canada
- 01/2016 **Poster Session Chair**, *12th Annual IFIP WG 11.9 International Conference on Digital Forensics*, January 2016, New Delhi, India
- 01/2015 **Session Chair**, *"Database Forensics", 11th Annual IFIP WG 11.9 International Conference on Digital Forensics*, January 2015, Orlando, Florida, USA

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#### Programme Committee Service



- 2023 Computer-Supported Cooperative Work and Social Computing track of PACMHCI (CSCW)
- 2023 International Workshop on Socio-Technical Aspects in Security (STAST), Affiliated with IEEE Euro Security & Privacy (IEEE Euro S&P)
- 2022 International Conference on Availability, Reliability and Security (ARES 2022)
- 2022 International Conference on Security and Privacy in Smart Environments (SMARTS&P)
- 2022 - 2019 International Workshop on Socio-Technical Aspects in Security (STAST), Affiliated with the European Symposium on Research in Computer Security (ESORICS)
- 2024 - 2020 International ACM Conference on Web Science (WebSci)
- 2022 - 2018 International AAAI Conference on Web and Social Media (ICWSM)
- 2022, 2020 International Conference on Social Informatics (SocInfo)
- 2018 International Workshop on Socio-Technical Aspects in Security (STAST), Affiliated with the Annual Computer Security Applications Conference (ACSAC)
- 2018 IEEE Cyber Science and Technology Congress, CyberSciTech 2018
- 2018, 2017 ACM–Usenix Eurosys (*Shadow*)
- 2017 International Conference on Security, Privacy and Anonymity in Computation, Communication and Storage (SpaCCS)
- 2017 International Conference on e-Democracy
- 2017 EAI International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom)
- 2017 Workshop on Security and Privacy in Cyber-Physical Systems (SPCPS), Affiliated with the IEEE International Conference on Cybernetics (CYBCONF)
- 2016 - 2014 Annual IFIP WG 11.9 International Conference on Digital Forensics

## Editorial Work - Reviews

### Editorial Board - Associate Editor

Since 2023 Journal of Responsible Technology, Elsevier

Since 2022 Digital Threats: Research and Practice, ACM

### Journal Reviews

2023 Transactions on Industrial Cyber-Physical Systems, IEEE

2023 - 2020, 2014 International Journal of Information Security, Springer

2021 IEEE Internet Computing

2022, 2021 FSI: Digital Investigation, Elsevier

2021, 2020 Digital Threats: Research and Practice, ACM

2023 - 2020, 2018, 2017, 2014 Journal of Information Security and Applications, Elsevier

2021 Information Fusion, Elsevier

01/2020, 02/2020 Internet of Things Journal, IEEE

- 2019 Transactions on Engineering Management, IEEE
- 2023, 2018 Computers & Security, Elsevier
- 2018 Telematics and Informatics, Elsevier
- 2018 Journal of Cybersecurity, Oxford University Press
- 2016 Transactions on Dependable and Secure Computing, IEEE
- 2016 Future Generation Computer Systems, Elsevier
- 2015 TELKOMNIKA (Telecommunication, Computing, Electronics and Control)
- 2013 Transactions on Image Processing, IEEE

#### Other Reviews

- 2022 Discribe Hub+ Commissioning Call - round 2, *subreviewer*
- 2020 Japan Society for the Promotion of Science (JSPS)
- 2019, 2015 ESORICS, *subreviewer*

### Teaching

#### University of Birmingham

- 2023–2024 **LH Security of Real-World Systems (37083) (BSc)**, *University of Birmingham, U.K. and U.A.E.*, Instructor (and Module Leader at U.A.E.)
- 2023–2024 **LC Data Structures and Algorithms (30403) (BSc)**, *University of Birmingham, U.K. and U.A.E.*, Instructor (and Module Leader at U.A.E.)
- 2022–2024 **LI Security and Networks (30432) (BSc)**, *University of Birmingham, U.K. and U.A.E.*, Instructor (and Module Leader at U.A.E.)
- 2022–2024 **LI Team Project (AI) (30427 and 32594) (BSc)**, *University of Birmingham, U.K. and U.A.E.*, Instructor (and Module Leader at U.A.E.)
- 2022–2023 **LM Storing and Managing Data (32245) (MSc)**, *University of Birmingham, U.K. and U.A.E.*, Instructor (and Module Leader at U.A.E.)
- 2022–2023 **LH Advanced Networking (30436) (BSc)**, *University of Birmingham, U.K. and U.A.E.*, Instructor (and Module Leader at U.A.E.)
- 2022–2024 **Computer Science Project (26581, 26587, 26586, 30433) (BSc)**, *University of Birmingham, U.K.*, Supervisor
- 2022–2024 **MSc Project**, *University of Birmingham, U.K.*, Supervisor
- 2022–2023 **LI Computer Science Industrial Placement (24055) (BSc)**, *University of Birmingham, U.K.*, Supervisor

#### University of the West of England

- 2018–2021 **UFCFXN-15-M: Cyber Security Futures Emerging Trends and Challenges (MSc)**, *University of the West of England, Bristol, U.K.*, Instructor
- 2016–2021 **UFCFP4-30-1: Computer Crime and Digital Evidence (BSc)**, *University of the West of England, Bristol, U.K.*, Module Leader since 2017, Instructor
- 2016–2021 **UFCFC5-15-3: Forensic computing practice (BSc)**, *University of the West of England, Bristol, U.K.*, Tutor, Instructor: 2020–2021

- 2016–2021 **UFCFJ6-30-2: Security and forensic tools (BSc)**, *University of the West of England, Bristol, U.K.*, Tutor, Instructor: 2020–2021
- 2016–2017 **UFCFB3-30-1: Web programming (BSc)**, *University of the West of England, Bristol, U.K.*, Tutor
- 2017–2019 **UFCFTK-30-1: Introduction to Databases (BSc)**, *University of the West of England, Bristol, U.K.*, Tutor
- 2017–2018 **UFCFE6-15-3: Professional experience (BSc)**, *University of the West of England, Bristol, U.K.*, Tutor
- 2017–2018 **UFCFW5-30-2: Mobile and Embedded Devices (BSc)**, *University of the West of England, Bristol, U.K.*, Tutor
- 2017–2021 **Msc, BSc Projects Supervision**, *UFCF9Y-60-M: CSCT Masters Project, UBLLY7-60-M: Dissertation, UFCFM5-30-3: Information Systems Dissertation, UFCFXK-30-3: Digital Systems Project*, *University of the West of England, Bristol, U.K.*, Supervisor

#### [University of the West of England - Seminars](#)

- 2016–2018 **Espresso Programming (BSc)**, *University of the West of England, Bristol, U.K.*, Tutorials
- 2020–2021 **“Mini DF-Seminars Series” (MSc, BSc)**, *University of the West of England, Bristol, U.K.*, Online Seminars

#### [University of Bristol](#)

- 2012–2015 **COMSM1201–COMSM1211: Programming in C (MSc)**, *University of Bristol, Bristol, U.K.*, Teaching Assistant
- 2012–2014 **COMSM1500: Systems Security (MSc, BSc)**, *University of Bristol, Bristol, U.K.*, Teaching Assistant
- 2012–2013 **COMS20700: Databases, (MSc, BSc)**, *University of Bristol, Bristol, U.K.*, Teaching Assistant
- 2013–2014 **COMS10002: Programming and Algorithms I (BSc)**, *University of Bristol, Bristol, U.K.*, Teaching Assistant

### **Mentorship and Supervision**

#### [Mentor](#)

- 2020–2021 Mentor to Mr Jonathan White, joining as new member of staff, *University of the West of England*

#### [PhD Students - Completions](#)

- 2019–2023 Andrew McCarthy, *University of the West of England*, Co-advised with Dr Phil Legg and Dr Essam Ghadafi

#### [PhD Students](#)

- 2022–2025 Sadegh Bamohabbat, *University of the West of England*, *ex-Director of Studies - Now as External Advisor*, Co-advised with Prof Jun Hong and Dr Antisthenis Tsompanas, DoS: Phil Legg.

### Interns (MSc, BSc)

07/2020–09/2020 Myles Kirby, Ramya Hariharasubramanian, Michael Glynn, *University of the West of England*

### MSc Students

2023 Qian Ye, *University of Birmingham*

2021 Carol Lo, Sairam Mallipeddi, Genesis Opone, Umeshkumar Shah, Seun Sunday, *University of the West of England*

2019–2020 Wejdan Alshammari, Raghu Vaddagere Shivakumar, Ramya Hariharasubramanian, *University of the West of England*

2018–2019 Abdulaziz Alqifari, Precious Tatah, *University of the West of England*

2014 Oluwapelumi Aboluwarin, Constantinos Constantinou, Julia Metochi, Zhaoqian Yu, *University of Bristol*

### BSc Students

2022–2023 Liwen Zhang, Di Wu, *University of Birmingham*

2020–2021 Sarah Pellant, Connor Ferguson, Aled Webb, Micah Hobby Mego, Maxwell Gyamfi, Callum Jackson, *University of the West of England*

2019–2020 Marco Alexandru Bugu, Amina Said, Farhad Sharif, Joseph Brian Thomas-Williams, Thomas Wathan, *University of the West of England*

2018–2019 William Blackie, Isaac Fayle-Waters, James Brewer, Marion Lomibao, Benjamin Maddock, *University of the West of England*

2017–2018 James Broadberry, *University of the West of England*

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### Invited Talks - Panel Invitations - Outreach

22/09/2023 **Symbiosis with the Androids: The first Decade (and beyond)**, *University of Athens - Department of Informatics and Telecommunications*, Athens, Greece

13/07/2023 **Digital Forensics with Open Source Tools**, *Intensive Programme on Information and Communication Security (IPICS) Summer School 2023*, Mytilene, Greece

21/06/2022 **Encouraging the gamekeeper to think like the poacher - innovation in assessment design**, *Festival of Learning 2022, UWE Bristol*, Frenchay Campus, Bristol, United Kingdom, Lindsey Gillies, Julian Webb, Panagiotis Andriotis

20/06/2022 **Human Factors in Cyber Security**, *The Science Dialogue Programme, JSPS*, Fukushima Prefecture, Fukushima High School, Japan.

11/02/2021 **Password Retrieval through Physical Traces on Mobile Devices**, *Home Office, Office for Security & Counter-Terrorism, ACE/FCN*, Online Roundtable event, U.K.

19/05/2016 **Digital Forensics: Retrieving Evidence from Mobile Devices**, *UCL, Information Security Group Seminar*, London, U.K.

15/07/2015 **Mobile Authentication mechanisms and attacks**, *Intensive Programme on Information and Communication Security (IPICS) Summer School 2015*, Mytilene, Greece

- 18/07/2014 **Steganography and Forensic Steganalysis in JPEG using Benford's Law**, *Intensive Programme on Information and Communication Security (IPICS) Summer School 2014*, Mytilene, Greece
- 11/12/2013 **Physical acquisition on Android and mobile data analysis and visualisation**, *Forensics Workshop, University of Bristol, UoB InfoSec*, Bristol, U.K.

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## In the Press

- 22/05/2023 **Digital Forensic Science links science and crime**, *The Time of India - Education Times*, Print Edition, [https://epaper.timesgroup.com/article-share?article=22\\_05\\_2023\\_554\\_011\\_cap\\_TOI](https://epaper.timesgroup.com/article-share?article=22_05_2023_554_011_cap_TOI)
- 14/03/2023 **Artificial Intelligence in Education - AIED**, *Medium*, <https://abbasw555.medium.com/artificial-intelligence-in-education-aid-812bae2c5009>
- 25/02/2021 **To Allow, or Deny?**, *Faculti*, <https://faculti.net/to-allow-or-deny/>
- 10/04/2018 **The endless game of cat and mouse with spammers**, *Eureka, Kyocera*, now archived, <https://go.uwe.ac.uk/eureka>
- 04/04/2018 **Impact of User Data Privacy Management Controls on Mobile Device Investigations**, *HAL open science*, <https://hal.science/hal-01758690v1>
- 09/03/2017 **MaMaDroid: Detecting Android malware by building Markov chains of behavioral models**, *the morning paper*, <https://blog.acolyer.org/2017/03/09/mamadroid-detecting-android-malware-by-building-markov-chains-of-behavioral-models/>
- 08/11/2016 **Smartphone Message Sentiment Analysis**, *HAL open science*, <https://hal.science/hal-01393775v1>

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## Seminars – Summer Schools - Online Training

- 10/2023 **Certificate–Basis Technology**, *[Workshop: Cyber Triage] Investigating Ransomware*, Online
- 09/2023 **Certificate–Belkasoft**, *iOS Forensics with Belkasoft*, Online
- 07/2023 **Certificate–Belkasoft**, *Maximizing DFIR Results with YARA, Sigma, and Belkasoft X*, Online
- 02/2023 **Certificate–Belkasoft**, *SQLite Forensics Training with Belkasoft*, Online
- 01/2023 **Certificate–Hexordia**, *Hexordia Mobile Forensic Analysis (HMFA)*, Online
- 12/2022 **Certificate–Belkasoft**, *Remote Acquisition with Belkasoft*, Online
- 06/2022 **Certificate–Belkasoft**, *Incident Investigations with Belkasoft*, Online
- 03/2022 **Certificate–Belkasoft**, *Belkasoft X Mobile Training Course*, Online
- 10/2020 **Certificate–Cyber Triage DFIR Training**, *Intro to DFIR: The Divide and Conquer Process, Basis Technology*, Online
- 04/2020 **Certificate–Autopsy Training**, *Autopsy 8-Hour Online Training, Basis Technology*, Online

- 08/2014 **STFC Hartree Centre Summer School on Big Data 2014**, *STFC Hartree Centre*, Daresbury, Warrington, U.K.
- 09/2012 **IPICS 2012**, *Intensive Programme on Information and Communication Security Summer School 2012*, Vienna, Austria
- 05/2012 **ECRYPT II Summer School on Tools**, *ECRYPT II Symmetric Techniques Virtual Lab (SymLab)*, Mykonos, Greece
- 08/2010 **Certificate–Educational Psychology**, *University of Athens e-school*, Online

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