Panagiotis Andriotis

PhD, SFHEA, GCFE, GASF

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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

Leadership Roles

2023 **Programme Design Committee (UoB Dubai lead)**, *MSc Cyber Security (Dubai)*, University of Birmingham

09/2022–Present **Dubai Committee**, *University of Birmingham Dubai*

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

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

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.

Funding

08/2023	**Toshiba Corporation**, *Toshiba Fellowship Programme (TFP)*, "System Security for Industrial Control Systems", Funding: JPY10M, (or approx. £54.5K)–*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. £241,590*

Publications

As of September 2, 2023 (reverse chronological order).

* indicates names of advised students/postgraduates.

† indicates my conference presentations.

Journal Articles (Peer Reviewed)

[J1] **P. Andriotis**†, M. Kirby*, 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*, 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*, 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. Mparmpaki, 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**†, M. Kirby*, 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*, **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**† 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**†, 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*, **P. Andriotis**†, 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. Shenoi. Cham: Springer International Publishing, 2016, pp. 69–87. DOI: 10.1007/978-3-319-46279-0_4.

[C8] **P. Andriotis**† 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. Shenoi. 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**[†] 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**[†], 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**[†], 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**[†], 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**[†], 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**[†], 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**[†], 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**[†] 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**[†], 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**[†], 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**[†], 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.

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

Programme Committee Service

2022	International Conference on Availability, Reliability and Security (ARES 2022)
2023	International Workshop on Socio-Technical Aspects in Security (STAST), Affiliated with IEEE Euro Security & Privacy (IEEE Euro S&P)
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

Associate Editor

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

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*

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.

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

14/03/2023 **Artificial Intelligence in Education - AIED**, *Medium*, https://abbasw555.medium.com/artificial-intelligence-in-education-aied-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 behavorial models**, *the morning paper*, https://blog.acolyer.org/2017/03/09/mamadroid-detecting-android-malware-by-building-markov-chains-of-behavorial-models/

08/11/2016 **Smartphone Message Sentiment Analysis**, *HAL open science*, https://hal.science/hal-01393775v1

Seminars – Summer Schools - Online Training

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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