

# Hamed Haddadi, PhD

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## PERSONAL

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## RESEARCH INTERESTS

Networked Systems, Applied Machine Learning, Privacy

## ACADEMIC APPOINTMENTS

**Faculty of Engineering, Imperial College London, UK**

**Nov 2017 - now**

Reader in Human-Centred Computing and the Director of Postgraduate Studies at the Dyson School of Design Engineering, Security Science Fellow of the Institute for Security Science and Technology, Academic Fellow of the Data Science Institute

- I perform research around user-centred systems, IoT, applied machine learning, and privacy, and lead the Systems and Algorithms Laboratory, alongside standard undergraduate and postgraduate supervision, administration and teaching duties in the Dyson School of Design Engineering at Imperial College London.

**EECS School, Queen Mary, University of London, UK**

**Oct 2011 - Oct 2017**

Lecturer (2011-2015) and Senior Lecturer (2015-2017) in Digital Media

- I performed research in issues around Design of privacy-preserving user behaviour analytics using machine learning, personal data, large-scale social sensing systems design and implementation, networks and Internet of Things, alongside standard undergraduate and postgraduate supervision, administration and teaching duties in the School of Electronics Engineering and Computer Science, QMUL. I lead the Social Computing and Health themes within the Cognitive Science research group and the Centre for Intelligent Sensing. I was the director for QMUL Engineering Foundation Program.

**Royal Veterinary College, University of London/Department of Pharmacology, University of Cambridge, UK**

**Jan 2010 - Sep 2011**

Postdoctoral Research Fellow

- I joined RVC to work with Professor Stephen Hailes of UCL Computer Science, Professor Alan Wilson, the head of RVC Structure and Motion Laboratory, and Professor Jenny Morton at the Department of Pharmacology, University of Cambridge. I worked on measuring cognitive, locomotor, social dynamics and behavioural functions in a transgenic sheep model of Huntington's Disease, using multi-sensory custom devices for large-scale monitoring, the results of which appeared on high impact journals such as Current Biology, and popular press such the BBC and the Science magazine.

**Max Planck Institute for Software Systems, Germany**

**Jan 2009 - Dec 2009**

Postdoctoral Researcher

- I joined as the first researcher in MPI-SWS at the new location in Kaiserslautern with Professor Paul Francis. I worked primarily on development of a privacy-aware advertisement system and new applications and possibilities for personalised advertisement. This work resulted in a US patent application, as well as a number of scientific publications. I also collaborated on a project with Dr Krishna Gummadi on analysis of competition between social networks and traditional mass media on information propagation which lead to articles in NYTimes and an ICWSM paper.

## EDUCATION

**University College London/University of Cambridge, UK, October 2004 - October 2008**

PhD Thesis: Topological Characteristics of IP Networks

- Scholarship and fees awarded by EPSRC.
  - I worked on developing sampling algorithms for inference of information from high-speed Internet links and to explore the topology modelling and failure issues on networks from an enterprise/corporate perspective. During my PhD I moved to Churchill College, Cambridge, to join the Computer Laboratory, University of Cambridge.

**University College London**, London, UK,

**October 2003 - September 2004**

MSc Telecommunications Industry, Distinction

- Scholarship and fees awarded by EPSRC.
  - As my MSc project I developed a commercialised operating system for sensor networks and performed extensive performance analysis for these devices.

**University College London**, London, UK,

**October 1999 - June 2003**

BEng (Honours) Electronics & Electrical Engineering

- Fees awarded by UCL Scholarship and Sony Europe
  - As my final year project, I built a stand-alone RDS encoder for the UCL radio station.

**London business School (part time)**, London, UK,

**January 2005 - April 2006**

MBA Elective modules

- Attendance sponsored by CSEL, UCL.
  - I was elected out of a high number of candidates to study few MBA electives at LBS: Finance and Value Creation, New Communications Industry, Technology Strategy

INDUSTRIAL  
EXPERIENCE,  
PLACEMENTS AND  
EXTENDED  
RESEARCH VISITS

**Brave Software**, UK

**Sep 2018 - Now**

Chief Scientist and Visiting Professor

- I lead the Research Team (currently over 12 researchers) and consult and conduct research on privacy-preserving analytics and local sensing and profiling techniques.

**Social Computing Group, Qatar Computing Research Institute**, May 2014 - Dec 2015

Research Scientist in Social Health Analytics

- I established the Social Health Analytics research program on the use of wearable devices, smartphone apps, and social media to provide personalised interventions for better health, understanding individuals' interaction with their data, and the effect of their social network on their health behaviour. I lead a number of collaboration between QCRI and Qatar hospitals on diabetes, sleep disorders, and childhood obesity.

**AT&T Labs, Research**, USA

**Jun 2012 - August 2013**

Visiting Data Scientist

- I spent the summers of 2012 and 2013 with Dr Walter Willinger & Dr Aman Shaikh on the interaction between external network events and internal traffic engineering in AT&T backbone network.

**TRC Mathematical Modelling, University of Adelaide**, Australia Mar 2008 - May 2008

Visiting Researcher

- I worked with Dr Olaf Maennel and Dr Matthew Roughan on the spreading of routing information in the Internet. We analysed a large collection of traces collected by the RouteViews project in order to understand the nature of update propagations in the BGP protocol. This work contributed directly to my dissertation and an international conference publication.

#### **Intel Research Cambridge, UK**

**Sep 2005 - Jan 2006**

##### Research Intern

- I joined Intel Research as my first internship during my PhD. In this work with Dr Gianluca Iannaccone I focused on detecting the root cause of distributed failures and events on the Internet and finding the weak points of the network topology. This work resulted in a journal publication, an extended abstract in SIGCOMM 2007 and provided the direction of my PhD thesis.

#### **Senceive, UK**

**Jun 2003 - Sep 2004**

##### System Engineer

- Senceive is a technology spin-out from University College London focusing on wireless sensor networks. I joined Senceive as their first employee and developed the operating systems and applications for environmental monitoring. I continued working at Senceive while I was an MSc student at UCL. The technology is being used for environmental monitoring in data centres and on Network Rail.

#### **Sony Europe, UK**

**Jun 2001 - Sep 2002**

##### Embedded Systems Engineer

- I worked in the Embedded systems Hardware Group in Sony Europe for two summer internships. In this work I worked on programming a test harness for the analysis of protocol and signal stability of the on-chip communications in mobile phones.

#### CONFERENCE PUBLICATIONS

1. Giuseppe Siracusano, Salvator Galea, Davide Sanvito, Mohammad Malekzadeh, Gianni Antichi, Paolo Costa, Hamed Haddadi, Roberto Bifulco, "Re-architecting Traffic Analysis with Neural Network Interface Cards?", 19th USENIX Symposium on Networked Systems Design and Implementation (NSDI'22), April 4-6, 2022, Renton, WA, USA
2. Matteo Varvello, Kleomenis Katevas, Mihai Plesa, Hamed Haddadi, Fabian Bustamante, Benjamin Livshits, "BatteryLab: A Collaborative Platform for Power Monitoring?", Passive and Active Measurement Conference 2022 (PAM'22), March 28-30, Online.
3. Yuchen Zhao, Sayed Saad Afzal, Waleed Akbar, Osvy Rodriguez, Fan Mo, David Boyle, Fadel Adib, Hamed Haddadi, "Towards Battery-Free Machine Learning and Inference in Underwater Environments?", The 23rd Annual International Workshop on Mobile Computing Systems and Applications (ACM HotMobile 2022), March 9-10, 2022, Tempe, Arizona, USA.
4. Lorenzo Minto, Moritz Haller, Hamed Haddadi, Benjamin Livshits, "Stronger Privacy for Federated Collaborative Filtering with Implicit Feedback?", in 15th ACM Conference on Recommender Systems (RecSys 2021), Amsterdam, Netherlands, 27th September-1st October 2021.
5. Ranya Aloufi, Hamed Haddadi, David Boyle, "Configurable Privacy-Preserving Automatic Speech Recognition?", INTERSPEECH 2021, Brno, Czechia, September 2021.
6. Roman Kolcun, Diana Andreea Popescu, Vadim Safronov, Poonam Yadav, Anna Maria Mandalari, Richard Mortier, Hamed Haddadi, "Revisiting IoT Device Identification?", Network Traffic Measurement and Analysis Conference (TMA 2021), September 13-15, 2021, Online.

7. Anna Maria Mandalari, Daniel J. Dubois, Roman Kolcun, Muhammad Talha Paracha, Hamed Haddadi, David Choffnes, “Blocking without Breaking: Identification and Mitigation of Non-Essential IoT Traffic”, 21st Privacy Enhancing Technologies Symposium (PoPETs 2021.4).
8. Fan Mo, Hamed Haddadi, Kleomenis Katevas, Eduard Marin, Diego Perino, Nicolas Kourtellis, “PPFL: Privacy-preserving Federated Learning with Trusted Execution Environments?”, in The 19th ACM International Conference on Mobile Systems, Applications, and Services (MobiSys 2021), Online, July 2021.(BEST PAPER AWARD)
9. Yuting Zhan, Hamed Haddadi, “MoSen: Activity Modelling in Multiple-Occupancy Smart Homes”, in 19th IEEE International Conference on Pervasive Computing and Communications (PerCom 2021), Kassel, Germany, March 2021.
10. Said Jawad Saidi, Anna Maria Mandalari, Roman Kolcun, Hamed Haddadi, Daniel J. Dubois, David Choffnes, Georgios Smaragdakis, Anja Feldmann, “A Haystack Full of Needles: Scalable Detection of IoT Devices in the Wild”, in ACM Internet Measurement Conference 2020, October 2020, Pittsburgh, Pennsylvania, USA.
11. Daniel J. Dubois, Roman Kolcun, Anna Maria Mandalari, Muhammad Talha Paracha, David Choffnes, Hamed Haddadi, “When Speakers Are All Ears: Characterizing Misactivations of IoT Smart Speakers”, in proceedings of the 20th Privacy Enhancing Technologies Symposium (PETS 2020), July 14-18, 2020, Montreal, Canada.
12. Fan Mo, Ali Shahin Shamsabadi, Kleomenis Katevas, Soteris Demetriou, Ilias Leontiadis, Andrea Cavallaro, Hamed Haddadi, “DarkneTZ: Towards Model Privacy at the Edge using Trusted Execution Environments”, 18th ACM International Conference on Mobile Systems, Applications, and Services (MobiSys 2020) June 2020, Toronto, Canada.
13. Mohammad Malekzadeh, Dimitrios Athanasakis, Hamed Haddadi, Benjamin Livshits, “Privacy-Preserving Bandits”, Third Conference on Machine Learning and Systems (MLSys 2020), March 2020, Austin, USA.
14. Matteo Varvello, Kleomenis Katevas, Mihai Plesa, Hamed Haddadi, Benjamin Livshits, “BatteryLab: A Distributed Power Monitoring Platform For Mobile Devices”, Eighteenth ACM Workshop on Hot Topics in Networks (HotNets 2019), November 14-15, 2019 ? Princeton, New Jersey, USA.
15. Jingjing Ren, Daniel J. Dubois, David Choffnes, Anna Maria Mandalari, Roman Kolcun, Hamed Haddadi, “Information Exposure From Consumer IoT Devices: A Multidimensional, Network-Informed Measurement Approach”, in ACM Internet Measurement Conference 2019 (IMC 2019), October, 2019, Amsterdam, Netherlands. (Community Contribution Award)
16. Seyed Ali Osia, Borzoo Rassouli, Hamed Haddadi, Hamid R. Rabiee, Deniz Gunduz, “Privacy Against Brute-Force Inference Attacks”, In IEEE International Symposium on Information Theory (ISIT 2019), Paris, France, July 2019.
17. Mohammad Malekzadeh, Richard G. Clegg, Andrea Cavallaro, Hamed Haddadi, “Mobile Sensor Data Anonymization”, ACM/IEEE International Conference on Internet of Things Design and Implementation (IoTDI 2019), April 2019, Montreal, Canada.
18. Ali Shahin Shamsabadi, Hamed Haddadi, Andrea Cavallaro, “Distributed One-class Learning”, IEEE International Conference on Image Processing, October 7-10, 2018, Athens, Greece.
19. Katrin Hänsel, Romina Kettner, Hamed Haddadi, Akram Alomainy, “What to Put on the User: Sensing Technologies for Studies and Physiology Aware Systems”, Proceedings of the ACM Conference on Human Factors in Computing Systems (ACM CHI’18), Montreal, Canada ,April 21-26, 2018.
20. Sandra Servia-Rodriguez, Liang Wang, Jianxin R. Zhao, Richard Mortier, Hamed Haddadi, “Personal Model Training under Privacy Constraints”, The 3rd ACM/IEEE International Conference on Internet-of-Things Design and Implementation, April 2018, Orlando, Florida.

21. Mohammad Malekzadeh, Richard G. Clegg, Hamed Haddadi, "Replacement AutoEncoder: A Privacy-Preserving Algorithm for Sensory Data Analysis?", The 3rd ACM/IEEE International Conference on Internet-of-Things Design and Implementation, April 2018, Orlando, Florida.
22. Sina Sajadmanesh, Sina Jafarzadeh, Seyed Ali Ossia, Hamid R. Rabiee, Hamed Haddadi, Yelena Mejova, Mirco Musolesi, Emiliano De Cristofaro, Gianluca Stringhini, "Kissing Cuisines: Exploring Worldwide Culinary Habits on the Web", 26th International World Wide Web conference, 3-7 April, 2017, Perth, Western Australia.
23. Pooria Taghizadeh Naderi, Hadi Tabatabaee Malazi, Mona Ghassemian, Hamed Haddadi, "On the Quality of Claim in Social Sensing Systems", 6th International Conference on Computer and Knowledge Engineering (ICCKE 2016), October 2016, Mashhad, Iran.
24. Kleomenis Katevas, Hamed Haddadi, Laurissa Tokarchuk, "SensingKit: Evaluating the Sensor Power Consumption in iOS devices", The 12th International Conference on Intelligent Environments (IE'16), September 2016, London, UK.
25. Gareth Tyson, Claudiu Perta, Hamed Haddadi and Micheal Seto, "A First Look at User Activity on Tinder", The 2016 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM 2016), San Francisco, CA, USA, 18 - 21 August, 2016
26. Yelena Mejova, Sofiane Abbar, Hamed Haddadi, "Fetishizing Food in Digital Age: #foodporn Around the World", International AAAI Conference on Web and Social Media (ICWSM 2016), May 2016, Cologne, Germany.
27. Jaclyn Rich, Hamed Haddadi, Timothy Hospedales, "Towards Bottom-Up Analysis of Social Food", ACM Digital Health Conference 2016, 11-13 April 2016, Montreal, Canada.
28. Tiago Cunha, Ingmar Weber, Hamed Haddadi, Gisele Lobo Pappa, "The Effect of Social Feedback in a Weight Loss Subreddit", ACM Digital Health Conference 2016, 11-13 April 2016, Montreal, Canada.
29. Marjan Falahrastegar, Hamed Haddadi, Steve Uhlig, Richard Mortier, "Tracking Personal Identifiers Across the Web", Passive and Active Measurement conference (PAM 2016), 31 March-1 April 2016, Crete, Greece
30. Damien Fay, Hamed Haddadi, Micheal Seto, Han Wang, Christoph Kling, "An exploration of fetish social networks and communities", International School and Conference on Network Science (NetSci X 2016), January 11-13, 2016 in Wroclaw, Poland.
31. Natalie Wilde, Hamed Haddadi, Akram Alomainy, "On Feasibility of Using Wearable Interfaces to Provide Social Support", 5th EAI International Conference on Wireless Mobile Communication and Healthcare (MOBIHEALTH 2015), October 2015, London, Great Britain.
32. Katrin Hänsel, Natalie Wilde, Hamed Haddadi, Akram Alomainy, "Challenges with Current Wearable Technology in Monitoring Health Data and Providing Positive Behavioural Support", 5th EAI International Conference on Wireless Mobile Communication and Healthcare (MOBIHEALTH 2015), October 2015, London, Great Britain.
33. Yelena Mejova, Hamed Haddadi, Sofiane Abbar, Azadeh Ghahghaei, Ingmar Weber, "Culture of Food and Exercise on Instagram: Case of Qatar", IEEE International Conference on Healthcare Informatics 2015 (ICHI 2015), October 2015, Dallas, Texas USA
34. Yulia Silina, Hamed Haddadi, "New Directions in Jewelry: a Close Look at Emerging Trends & Developments in Jewelry-like Wearable Devices", ACM International Symposium on Wearable Computers (ISWC 2015), September 2015, Osaka, Japan.
35. Hamed Haddadi, Heidi Howard, Amir Chaudhry, Jon Crowcroft, Anil Madhavapeddy, Richard Mortier, "Personal Data: Thinking Inside the Box", The 5th decennial Aarhus conferences (Aarhus 2015), August 2015

36. Vasile Claudiu Perta, Marco Valerio Barbera, Gareth Tyson, Hamed Haddadi, Alessandro Mei, "A Glance through the VPN Looking Glass: IPv6 Leakage and DNS Hijacking in Commercial VPN clients", The 15th Privacy Enhancing Technologies Symposium (PETS 2015), June 30-July 2, 2015, Philadelphia, PA, USA
37. Yelena Mejova, Hamed Haddadi, Anastasios Noulas, Ingmar Weber, "#FoodPorn: Obesity Patterns in Culinary Interactions", 5th ACM conference on Digital Health, Florence, Italy, May 2015.
38. Shana Dacres, Hamed Haddadi, Matthew Purver, "Topic and Sentiment Analysis on OSNs: a Case Study of Advertising Strategies on Twitter", The Sixth ASE International Conference on Social Computing, SOCIALCOM 2014, Stanford, CA, USA, May 27 - May 31, 2014
39. Richard Mortier, Hamed Haddadi, Tristan Henderson, Derek McAuley, and Jon Crowcroft, "Challenges & Opportunities in Human-Data Interaction", DE2013: Open Digital, November 2013, MediaCityUK, Salford, UK [**BEST PAPER AWARD**].
40. Narseo Vallina-Rodriguez, Jay Shah, Alessandro Finamore, Yan Grunenberger, Konstantina Papagiannaki, Hamed Haddadi, Jon Crowcroft, "Breaking for Commercials: Characterizing Mobile Advertising", in *ACM Internet Measurement Conference*, November 2012, Boston, USA.
41. Narseo Vallina-Rodriguez, Salvatore Scellato, Hamed Haddadi, Carl Forsell, Jon Crowcroft and Cecilia Mascolo, "Los Twindignados: the Rise of the Indignants Movement", in *ASE/IEEE International Conference on Social Computing (SocialCom)*, September 2012.
42. Meeyoung Cha, Hamed Haddadi, Fabricio Benevenuto, Krishna Gummadi, "Measuring User Influence in Twitter: The Million Follower Fallacy", in *ICWSM 2010, 4th Int'l AAAI Conference on Weblogs and Social Media*, George Washington University, Washington, DC, May 23-26, 2010. (Published also on The New York Times online and Harvard Business Review)
43. Meeyoung Cha, Juan Antonio Navarro Perez, and Hamed Haddadi, "Flash Floods and Ripples: The Spread of Media Content through the Blogosphere", *3<sup>rd</sup> Int'l AAAI Conference on Weblogs and Social Media (ICWSM)* San Jose, California, USA, May 2009 [**BEST PAPER AWARD**].
44. Hamed Haddadi, Saikat Guha, Paul Francis, "Not All Adware is Badware: Towards Privacy-Aware Advertising", *9<sup>th</sup> IFIP Conference on e-Business, e-Services, and e-Society (I3E 2009)*, Nancy, France, September 2009.
45. Hamed Haddadi, Damien Fay, Almerima Jamakovic, Olaf Maennel, Andrew W. Moore, Richard Mortier, Steve Uhlig, "On the Importance of Local Connectivity for Internet Topology Models", *21<sup>st</sup> International Teletraffic Congress (ITC 21)*, Paris, France, September 2009.
46. Hamed Haddadi, Raul Landa, Andrew Moore, Saleem Bhatti, Miguel Rio, Xianhui Che, "Revisiting the Issues On Netflow Sample and Export Performance", *CHINACOM 2008*, Hangzhou, China, August 2008.
47. Richard G. Clegg, Raul Landa, Hamed Haddadi, Andrew Moore, Miguel Rio, "Techniques for flow inversion on sampled data", *11<sup>th</sup> IEEE INFOCOM Global Internet Symposium*, Phoenix AZ, USA, April 2008.
48. Hamed Haddadi and Lionel Sacks, "Networks Modelling Using Sampled Statistics", *LCS2006*, London, UK, September 2006.
49. Hamed Haddadi, Lionel Sacks, "Passive Monitoring Challenges on High-Speed Switched Networks", *LCS2005*, London, UK, September 2005.
50. Matt Britton, Venus Shum, Lionel Sacks and Hamed Haddadi, "A Biologically-Inspired Approach to Designing Wireless Sensor Networks", *EWSN 2005: 2<sup>nd</sup> European Workshop on Wireless Sensor Networks*, Istanbul, Turkey, January 2005.

1. Mohammad Malekzadeh, Richard G. Clegg, Andrea Cavallaro, Hamed Haddadi, "DANA: Dimension-Adaptive Neural Architecture for Multivariate Sensor Data", Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT/UBICOMP 2021), September 2021.
2. Zahra Pooranian, Mauro Conti, Hamed Haddadi, Rahim Tafazolli, "Online Advertising Security: Issues, Taxonomy, and Future Directions", IEEE Communications Surveys and Tutorials, 2021.
3. Ali Shahin Shamsabadi, Adria Gascon, Hamed Haddadi and Andrea Cavallaro, "PrivEdge: From Local to Distributed Private Training and Prediction", IEEE Transactions on Information Forensics & Security, 2020, DOI:10.1109/TIFS.2020.2988132.
4. Seyed Ali Osia, Ali Shahin Shamsabadi, Sina Sajadmanesh, Ali Taheri, Kleomenis Katevas, Hamid R. Rabiee, Nicholas D. Lane, Hamed Haddadi, "A Hybrid Deep Learning Architecture for Privacy-Preserving Mobile Analytics", IEEE Internet of Things Journal, January 2020. DOI: 10.1109/JIOT.2020.2967734.
5. Edoardo Lisi, Mohammad Malekzadeh, Hamed Haddadi, F. Din-Houn Lau, Seth Flaxman, "Modeling and Forecasting Art Movements with CGANs", Proceedings of Royal Society Open Science, 2020.
6. Mohammad Malekzadeh, Richard G. Clegg, Andrea Cavallaro, Hamed Haddadi, "Privacy and Utility Preserving Sensor-Data Transformations", Pervasive and Mobile Computing (PMC), 2020.
7. Seyed Ali Osia, Ali Taheri, Ali Shahin Shamsabadi, Kleomenis Katevas, Hamed Haddadi, Hamid R. Rabiee, "Deep Private-Feature Extraction", IEEE Transactions on Knowledge and Data Engineering, 2019.
8. Chaoyun Zhang, Paul Patras, Hamed Haddadi, "Deep Learning in Mobile and Wireless Networking: A Survey", in Proceedings of IEEE Communications Surveys & Tutorials, 2019, DOI:10.1109/COMST.2019.2904897
9. Seyed Ali Osia, Ali Shahin Shamsabadi, Ali Taheri, Hamid R. Rabiee, Hamed Haddadi, "Private and Scalable Personal Data Analytics using a Hybrid Edge-Cloud Deep Learning", IEEE Computer Magazine Special Issue on Mobile and Embedded Deep Learning, April 2018.
10. Andy Crabtree, Tom Lodge, James Colley, Chris Greenhalgh, Kevin Glover, Hamed Haddadi, Yousef Amar, Richard Mortier, Qi Li, John Moore, Liang Wang, Poonam Yadav, Jianxin Zhao, Anthony Brown, Lachlan Urquhart, Derek McAuley, "Building Accountability into the Internet of Things: The IoT Databox Model", Journal of Reliable Intelligent Environments, Springer, 2018.
11. Charith Perera, Susan Wakenshaw, Tim Baarslag, Hamed Haddadi, Arosha Bandara, Richard Mortier, Andy Crabtree, Irene Ng, Derek McAuley, Jon Crowcroft, "Valorising the IoT Databox: Creating Value for Everyone", Transactions on Emerging Telecommunications Technologies, Volume 28, Issue 1, January 2017.
12. Andy Crabtree, Tom Lodge, James Colley, Chris Greenhalgh, Richard Mortier, Hamed Haddadi "Enabling the New Economic Actor: Data Protection, the Digital Economy, and the Databox", Springer Personal and Ubiquitous Computing (PUC), 2016
13. Richard Mortier, Hamed Haddadi, Tristan Henderson, Derek McAuley, Jon Crowcroft, Andy Crabtree, "Human-Data Interaction", Encyclopedia of Human Computer Interaction, 2nd Ed, October 2016.
14. Haifeng Liu, Zheng Hu, Hamed Haddadi, Hui Tian, "Hidden Link Prediction based on Node Centrality and Weak Ties", in *EPL (Europhysics Letters)*, (**Impact Factor: 2.171**), 2013.
15. Meeyoung Cha, Juan Antonio Navarro Perez, Hamed Haddadi, "The Spread of Media Content Through Blogs", in *Social Network Analysis and Mining*, Springer, September 2012.

16. Meeyoung Cha, Fabricio Benevenuto, Hamed Haddadi and Krishna Gummadi, “The world of connections and information flow in Twitter”, in *IEEE Transactions on Systems, Man and Cybernetics - Part A*, (**Impact Factor: 2.123**), 2012.
17. Hamed Haddadi, Richard Mortier, Steven Hand, Ian Brown, Eiko Yoneki, Derek McAuley and Jon Crowcroft: “Privacy Analytics”, *ACM SIGCOMM Computer Communication Review*, April 2012.
18. King, A. J., Wilson, A. M., Wilshin, S. D., Lowe, J., Haddadi, H., Hailes, S., Morton, A. J. “Selfish-herd behaviour of sheep under threat”, *Current Biology* (**Impact Factor 10.7**), July 2012. (Also appeared on BBC, Science Magazine and other online media)
19. Hannah Hobbs-Chell, Andrew J. King, Hannah Sharratt, Hamed Haddadi, Skye R. Rudiger , Stephen Hailes, A. Jennifer Morton, Alan M. Wilson, “Data-loggers carried on a harness do not adversely affect sheep locomotion”, in *Research in Veterinary Science*, Elsevier, 2012.
20. Damien Fay, Hamed Haddadi, Steve Uhlig, Liam Kilmartin, Andrew W Moore, Jerome Kunegis, Marios Iliofotou, “Network clustering via spectral projections” in *Elsevier Computer Networks (COMNET)*, 2011.
21. Hamed Haddadi, Andrew J. King, Alison P. Wills, Damien Fay, John Lowe, A. Jennifer Morton, Stephen Hailes, and Alan Wilson, “Determining association networks in social animals: choosing spatial-temporal criteria and sampling rates”, in *Behavioral Ecology and Sociobiology* (**Impact Factor 2.8**), 2011.
22. Hamed Haddadi, “Battling Online Click-Fraud Using Bluff Ads”, *ACM SIGCOMM Computer Communication Review (CCR)* , Vol. 40, No. 2, April 2010.
23. Damien Fay, Hamed Haddadi, Andrew G. Thomason, Andrew W. Moore, Richard Mortier, Almerima Jamakovic, Steve Uhlig, Miguel Rio, “Weighted Spectral Distribution for Internet Topology Analysis: Theory and Applications”, *IEEE/ACM Transactions on Networking (ToN)*, (**Impact Factor 2.03**), February 2010.
24. Damien Fay, Hamed Haddadi, Andrew Moore, Richard Mortier, Steve Uhlig, Almerima Jamakovic, “A Weighted Spectrum Metric for Comparison of Internet Topologies”, *ACM SIGMETRICS PER Performance Evaluation Review*, December 2009.
25. R. G. Clegg, M. S. Withall, A. W. Moore, I. W. Phillips, D. J. Parish, M. Rio, R. Landa, H. Haddadi, K. Kyriakopoulos, J. Auge, R. Clayton D. Salmon, “Challenges in the capture and dissemination of measurements from high-speed networks”, *IET Communications, Special Issue on Simulation, Analysis and Measurement of Broadband Network Traffic*, volume 3, Issue 6, 2009.
26. Hamed Haddadi, Gianluca Iannaccone, Andrew Moore, Richard Mortier, Miguel Rio, “Network Topologies: Inference, Modelling and Generation”, *IEEE Communications Surveys and Tutorials*, Volume 10, Number 2, 2008.
27. Hamed Haddadi, Steve Uhlig, Andrew Moore, Richard Mortier, and Miguel Rio, “Modelling Internet Topology Dynamics”, *ACM SIGCOMM Computer Communication Review*, 38(2), April 2008.

WORKSHOP  
PUBLICATIONS AND  
TECHNICAL  
REPORTS

1. Oliver Thompson, Anna Maria Mandalari, Hamed Haddadi, “Rapid IoT Device Identification at the Edge?”, 2nd Workshop on Distributed Machine Learning (DistributedML 2021), co-located with ACM CoNEXT 2021, December 7-10, 2021, Munich, Germany.
2. Said Jawad Saidi, Anna Maria Mandalari, Hamed Haddadi, Daniel J Dubois, David Choffnes, Georgios Smaragdakis, Anja Feldmann, “Detecting Consumer IoT Devices Through the Lens of an ISP?”, ACM/IRTF Applied Networking Research Workshop 2021 (ANRW’21), co-located with the IETF-111 meeting, July 26-30, 2021, Online.



3. Fan Mo, Anastasia Borovykh, Mohammad Malekzadeh, Hamed Haddadi, Soteris Demetriou, “Layer-wise Characterization of Latent Information Leakage in Federated Learning?”, Distributed and Private Machine Learning workshop at ICLR 2021 (DPML 2021)
4. Ranya Aloufi, Hamed Haddadi, David Boyle, “Privacy-preserving Voice Analysis via Disentangled Representations”, in The ACM Cloud Computing Security Workshop (CCSW 2020), in conjunction with the ACM Conference on Computer and Communications Security (CCS), November 9, 2020, Orlando, Florida
5. Anna Maria Mandalari, Roman Kolcun, Hamed Haddadi, Daniel J. Dubois, David Choffnes, “Towards Automatic Identification and Blocking of Non-Critical IoT Traffic Destinations”, Workshop on Technology and Consumer Protection (ConPro’20), Co-located with the 41th IEEE Symposium on Security and Privacy, May 21, 2020, San Francisco, CA.
6. Yuchen Zhao, Hamed Haddadi, Severin Skillman, Shirin Enshaeifar, Payam Barnaghi, “Privacy-preserving Activity and Health Monitoring on Databox”, the 3rd International Workshop on Edge Systems, Analytics and Networking (EdgeSys 2020), in conjunction with ACM EuroSys 2020, April 2020, Heraklion, Greece.
7. Matteo Varvello, Kleomenis Katevas, Mihai Plesa, Hamed Haddadi, Benjamin Livshits, “BatteryLab: A Distributed Power Monitoring Platform For Mobile Devices”, Eighteenth ACM Workshop on Hot Topics in Networks (HotNets 2019), November 14-15, 2019 ? Princeton, New Jersey, USA.
8. Ranya Aloufi, Hamed Haddadi, David Boyle, “Emotionless: Privacy-Preserving Speech Analysis for Voice Assistants”, in Privacy Preserving Machine Learning, ACM CCS 2019 Workshop, November 2019, London, UK.
9. Ranya Aloufi, Hamed Haddadi, David Boyle, “Emotion Filtering at the Edge”, 1st Workshop on Machine Learning on Edge in Sensor Systems (Sensys-ML), In conjunction with ACM SenSys 2019, November 10, 2019, New York, NY, USA.
10. Kleomenis Katevas, Katrin Hänsel, Richard Clegg, Ilias Leontiadis, Hamed Haddadi, Laurissa Tokarchuk, “Finding Dory in the Crowd: Detecting Social Interactions using Multi-Modal Mobile Sensing”, 1st Workshop on Machine Learning on Edge in Sensor Systems (Sensys-ML), In conjunction with ACM SenSys 2019, November 10, 2019, New York, NY, USA.
11. Yuting Zhan and Hamed Haddadi, ‘Activity Prediction in Improving Well-Being of Both The Elderly and Caregivers”, Second International Workshop On Computing For Well-Being (WELLCOMP 2019), In conjunction with UbiComp 2019, September, 2019, London, UK.
12. John Moore, Andres Arcia-Moret, Poonam Yadav, Richard Mortier, Anthony Brown, Derek McAuley, Andy Crabtree, Chris Greenhalgh, Hamed Haddadi, Yousef Amar, “Zest: REST over ZeroMQ”, The Third Workshop on Security, Privacy and Trust in the Internet of Things, In conjunction with IEEE PERCOM 2019, March 11 -15, 2019, Kyoto, Japan.
13. Poonam Yadav, John Moore, Qi Li, Richard Mortier, Anthony Brown, Andy Crabtree, Chris Greenhalgh, Derek McAuley, Yousef Amar, Ali Shahin Shamsabadi, Hamed Haddadi, “Providing Occupancy as a Service with Databox”, in The 1st ACM International Workshop on Smart Cities and Fog Computing (CitiFog’18), November 4, 2018, Shenzhen, China.
14. Katrin Hansel, Kleomenis Katevas, Guido Orgs, Daniel C. Richardson, Akram Alomainy, Hamed Haddadi, “The potential of wearable technology for monitoring social interactions based on interpersonal synchrony”, 4th ACM Workshop on wearable systems and applications (WearSys 2018), June 2018, Munich, Germany.
15. Hamed Haddadi, Vassilis Christophides, Renata Cruz Teixeira, Kenjiro Cho, Shigeya Suzuki and Adrian Perrig, “SIOTOME: An Edge-ISP Collaborative Architecture for IoT Security”, in proceedings of the 1st International Workshop on Security and Privacy for the Internet-of-Things (IoTSec), co-located with the 3rd ACM/IEEE International Conference on Internet of Things Design and Implementation (IoTDI), April 2018, Orlando, Florida, USA.

16. Mohammad Malekzadeh, Richard G. Clegg, Andrea Cavallaro, Hamed Haddadi, "Protecting Sensory Data against Sensitive Inferences", in proceedings of the 1st Workshop on Privacy by Design in Distributed Systems, co-located with Eurosys 2018, Porto, Portugal, April 2018.
17. Yousef Amar, Hamed Haddadi, Richard Mortier, "An Information-Theoretic Approach to Time-Series Data Privacy", in proceedings of the 1st Workshop on Privacy by Design in Distributed Systems, co-located with Eurosys 2018, Porto, Portugal, April 2018.
18. Richard Mortier, Jianxin Zhao, Jon Crowcroft, Liang Wang, Qi Li, Hamed Haddadi, Yousef Amar, Andy Crabtree, James Colley, Tom Lodge, Tosh Brown, Derek McAuley, Chris Greenhalgh, "Personal Data Management with the Databox: Whats Inside the Box?", ACM CoNext Cloud-Assisted Networking workshop (CAN 2016), December 12, 2016, Irvine, California.
19. Katrin Hänsel, Akram Alomainy, Hamed Haddadi, "Large Scale Mood and Stress Self-Assessments on a Smartwatch", Mental Health and Well-being: Sensing and Intervention workshop, in conjunction with the 2016 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp2016), September 2016, Heidelberg, Germany.
20. Kleomenis Katevas, Hamed Haddadi, Laurissa Tokarchuk, Richard G. Clegg, "Detecting Group Formations using iBeacon Technology", 4th International Workshop on Human Activity Sensing Corpus and Application (HASCA2016) in conjunction with UbiComp2016, September 2016, Heidelberg, Germany.
21. Rishab Nithyanand, Sheharbano Khattak, Mobin Javed, Narseo Vallina-Rodriguez, Marjan Falahrastegar, Julia E. Powles, Emiliano De Cristofaro, Hamed Haddadi, Steven J. Murdoch, "Ad-Blocking and Counter Blocking: A Slice of the Arms Race", 6th USENIX Workshop on Free and Open Communications on the Internet (FOCI '16), August 2016, Austin, TX, USA
22. Ian Nathan Anggono, Hamed Haddadi, Mohamed Ali Kaafar, "Preserving Privacy in Geo-Targeted Advertising", 2nd International Workshop on Ad Targeting at Scale at WSDM 2016 (TargetAd 2016), February 22nd, San Francisco, CA, USA.
23. Hamed Haddadi, Ferda Offi, Yelena Mejova, Ingmar Weber, Jaideep Srivastava, "360° Quantified Self", IEEE International Workshop on Smart and Connected Health (SCH 2015), co-located with IEEE ICHI 2015, October 2015, Dallas, Texas, USA .
24. Kleomenis Katevas, Hamed Haddadi, Laurissa Tokarchuk, Richard Clegg, "Walking in Sync: Two is Company, Three's a Crowd", ACM MobiSys 2nd Workshop on Physical Analytics (WPA), Florence, Italy, May 2015.
25. Yulia Silina, Hamed Haddadi, "The Distant Heart: Mediating Long-Distance Relationships through Connected Computational Jewelry", May 2015, available on arXiv: <http://arxiv.org/abs/1505.00489>
26. Richard Mortier, Hamed Haddadi, Tristan Henderson, Derek McAuley, and Jon Crowcroft, "Human-Data Interaction: The Human Face of the Data-Driven Society", (October 1, 2014). Available at SSRN: <http://ssrn.com/abstract=2508051>
27. Muhammad Haris, Hamed Haddadi, Pan Hui, "Privacy Leakage in Mobile Computing: Tools, Methods, and Characteristics", October 2014, available on arXiv: <http://arxiv.org/pdf/1410.4978v1>
28. Marjan Falahrastegar, Hamed Haddadi, Steve Uhlig, and Richard Mortier, "Anatomy of the Third-Party Web Tracking Ecosystem". September 2014, <http://arxiv.org/abs/1409.1066>
29. Hamed Haddadi, Ian Brown, "Quantified Self and the Privacy Challenge", Society for Computers and Law, Technology Law Futures Forum, August 2014.
30. Hamed Haddadi, Georgios Smaragdakis, K. K. Ramakrishnan, "Opportunities in a Federated Cloud Marketplace", May 2014, , available on ArXiv: <http://arxiv.org/abs/1405.1811>
31. Marjan Falahrastegar, Hamed Haddadi, Steve Uhlig, Richard Mortier, "The Rise of Panopticons: Examining Region-Specific Third-Party Web Tracking", In Sixth Workshop on Traffic Monitoring and Analysis (TMA), London, UK, April 2014.

32. Hamed Haddadi, Richard Mortier, Derek McAuley, Jon Crowcroft, "Human-Data Interaction", Technical Report 837, University of Cambridge, Computer Laboratory
33. Bernadette Kamleitner, Stephan Dickert, Marjan Falahrastegar, Hamed Haddadi, "Information Bazaar: a Contextual Evaluation", to appear at *5th ACM HotPlanet workshop, co-located with SIGCOMM 2013*, HongKong, August 2013
34. Hamed Haddadi, Patrick Healey, Rose McCabe, Matthew Purver, "Healthcare Informatics for Mental Health: Recent Advances and the Outlook for the Future", Starting Today: Future of Mental Health Services, Technical Report, Mental Health Foundation, September 2013
35. Hamed Haddadi, Pan Hui, Ian Brown "MobiAd: Private and Scalable Mobile Advertising", in *The 5th ACM International Workshop on Mobility in the Evolving Internet Architecture (MobiArch2010)*, Chicago, Illinois, USA, September 2010
36. Hamed Haddadi, Pan Hui, "To Add or not to Add: Privacy and Social Honeypots", invited paper in *IEEE First International Workshop on Social Networks*, Cape Town, South Africa, May 2010
37. Hamed Haddadi, Damien Fay, Steve Uhlig, Andrew Moore, Richard Mortier, Almerima Jamakovic "Mixing Biases: Structural Changes in the AS Topology Evolution", *2<sup>nd</sup> International Workshop on Traffic Monitoring and Analysis (TMA'10)*, Zurich, Switzerland, April 2010
38. Saikat Guha, Alexey Reznichenko, Hamed Haddadi, Paul Francis, "Serving Ads from localhost for Performance, Privacy, and Profit", *Eighth ACM Workshop on Hot Topics in Networks (HotNets-VIII)*, New York City, NY, October 2009
39. Saikat Guha, Bin Cheng, Alexey Reznichenko, Hamed Haddadi, Paul Francis, "Re-architecting Online Advertising for Privacy", in Technical Report TR-2009-4, Max Planck Institute for Software Systems, Kaiserslautern-Saarbrücken, Germany, October 2009
40. Hamed Haddadi, Damien Fay, Steve Uhlig, Andrew W. Moore, Richard Mortier, Almerima Jamakovic, "Analysis of the Internet's structural evolution", Technical Report UCAM-CL-TR-756, University of Cambridge, Computer Laboratory, September 2009
41. Richard G. Clegg, Raul Landa, Hamed Haddadi, Miguel Rio, "Measuring the likelihood of models for network evolution", *IEEE Infocom NetSciCom Workshop*, Rio de Janeiro, Brazil, April 2009
42. Damien Fay, Hamed Haddadi, Steve Uhlig, Andrew W. Moore, Richard Mortier, Almerima Jamakovic, "Weighted spectral distribution", Technical Report UCAM-CL-TR-729, University of Cambridge Computer Laboratory, September 2008.
43. Hamed Haddadi, Damien Fay, Almerima Jamakovic, Olaf Maennel, Andrew W. Moore, Richard Mortier, Miguel Rio, Steve Uhlig, "Beyond Node Degree: Evaluating AS Topology Models", Technical Report UCAM-CL-TR-725, University of Cambridge Computer Laboratory, July 2008.
44. Hamed Haddadi, Damien Fay, Steve Uhlig, Andrew Moore, Richard Mortier, Almerima Jamakovic, Miguel Rio, "Tuning Topology Generators Using Spectral Distributions", *Performance Evaluation: Metrics, Models and Benchmarks, SPEC International Performance Evaluation Workshop 2008, Springer Lecture Notes in Computer Science*, Volume 5119, Darmstadt, Germany, June 2008
45. Richard G. Clegg, Hamed Haddadi, Raul Landa, Miguel Rio, "Towards Informative Statistical Flow Inversion", May 2007 <http://arxiv.org/abs/0705.1939>
46. Hamed Haddadi, Raul Landa, Miguel Rio, Saleem Bhatti, "Revisiting the Issues On Netflow Sample and Export Performance", December 2006 <http://arxiv.org/abs/0704.0730>
47. Hamed Haddadi, Eduarda Mendes Rodrigues, Lionel E Sacks, "Development of a Monitoring and Measurement Platform for UKLight High-Capacity Network", *PREP2005*, Lancaster, UK, March 2005

## BOOKS & BOOK CHAPTERS

1. Andrew Crabtree, Hamed Haddadi, Richard Mortier, “Privacy by Design for the Internet of Things: Building accountability and security?”, ISBN-13: 978-1-83953-139-2, 2021, The IET.
2. Jon Crowcroft, Hamed Haddadi, Tristan Henderson, “Responsible Research on Social Networks: Dilemmas and Solutions”, Oxford Handbook of Networked Communication, Oxford University Press, 2018.
3. Alan Chamberlain, Andy Crabtree, Hamed Haddadi, Richard Mortier (editors), “Special theme on privacy and the Internet of things”, Personal and Ubiquitous Computing, August 2017.
4. Hamed Haddadi, Olivier Bonaventure (editors), “Recent Advances in Networking”, ACM SIGCOMM eBook, 2013, ACM, New York, NY, USA.
5. Hamed Haddadi, Emiliano Miluzzo, Pan Hui (editors), Proceedings of the 5th ACM Workshop on HotPlanet, HotPlanet’13, co-located with SIGCOMM’13, August 16, 2013, Hong Kong, China. ACM 2013, 978-1-4503-2177-8.
6. Damien Fay, Hamed Haddadi, Andrew W. Moore, Richard Mortier, Andrew G. Thomason and Steve Uhlig, “Weighted Spectral Distribution: A Metric for Structural Analysis of Networks”, in Machine Learning Approach for Network Analysis: Novel Graph Classes for Classification Techniques, Wiley, USA, 2012
7. Hamed Haddadi, Eiko Yoneki, “Proceedings of the First Workshop on Measurement, Privacy, and Mobility”, April 2012, ACM, New York, NY, USA.
8. Hamed Haddadi, Pan Hui, Tristan Henderson, Ian Brown, “Targeted Advertising on the Handset: Privacy and Security Challenges”, in Pervasive Advertising, Springer Human-Computer Interaction Series, 2011

## AWARDS

- ACM International Conference on Mobile Systems, Applications, and Services (MobiSys 2021) Best Paper Award
- ACM Internet Measurement Conference Community Contribution Award 2019
- QMUL Community Collaboration Award for Research 2017
- Fellowship of the Higher Education Academy, 2016
- Teaching Recognition Award, EECS School, Queen Mary University of London, 2014
- Best paper award in *UK Digital Economy all-hands conference 2013*
- Best paper award *3<sup>rd</sup> Int’l AAAI Conference on Weblogs and Social Media (ICWSM) 2009*
- Travel grant *SPEC International Performance Evaluation Workshop*, 2008
- Travel grant ACM CoNext Conference 2006
- IEEE INFOCOM 2005 selected abstract award

## RESEARCH GRANTS

- EPSRC Open Plus Fellowship (EP/W005271/1: Securing the Next Billion Consumer Devices on the Edge, £1,5m, 2022-2027)
- MIT-Imperial Seed Fund, \$100K, Starting October 2021
- EPSRC Impact Acceleration Award, £100K, Starting April 2021
- Co-I UK Dementia Research Institute Care Research & Technology programme (£20m, starting July 2019)
- PI Huawei Innovation Research Program (£64,000, 2019)
- Co-I EPSRC Human-Data Interaction, Legibility, Agency, Negotiability: EPSRC Network Plus grant (EP/R045178/1, £1,298,811 starting July 2018)
- Co-I EPSRC DADA: Defence Against Dark Artefacts (EP/R03351X/1, £1,249,510 starting July 2018)
- PI EPSRC Databox: Privacy-Aware Infrastructure for Managing Personal Data (EPSRC Ref EP/N028260/1 £1,537,810.44 starting October 2016)
- Co-I EPSRC Research-in-the-Wild on Internet of Things (IoT), 2015-2017 (£321,053 EPSRC Ref EP/L023504/1)
- PI on Microsoft Azure Research Award, 2015-2016 (\$20,000, CRM:0518581), 2017-2018 (\$20,000, CRM:0740917)

- PI Qatar Computing Research Institute, Data Scientist secondment grant 2014-2015 (£92,000)
- PI EPSRC IT as a Utility Network secondment grant at AT&T Research, 2013 (£6,000 EPSRC Ref EP/K003569/1)
- PI EPSRC Pump-Priming Research Funding for Cross-Faculty Initiatives, 2012 (£23,113 EPSRC Ref EP/J501360/1 )
- PI FCO UK-US Digital Economy Collaboration Development Award 2012 (£2,000)
- PI ACM SIGCOMM Educational Material Grant, 2012
- Named researcher, EPSRC small equipment grant, 2012 (£3,500 out of a £500,000 Grant)
- co-PI RVC Public Engagement Research Grant, 2011 (£2,000)

#### TEACHING

- Lecturer, Computing 2 (DesEng UG 1st year), 2020-2021
- Lecturer and new module developer, Sensing and IoT, 2018-2021
- Lecturer and new module developer, Digital Media and Social Networks, 2013-2017
- Lecturer of QMUL EECS Masters level course 21st Century Networks, 2012-2017
- Lecturer of BUPT IoT undergraduate course on Communication Systems, 2013-2014
- Lecturer of QMUL EECS undergraduate level course Communications and Networks, 2012-2013
- Lecturer of QMUL EECS Masters level course Computer Systems and Networks, 2012-2013
- Lecturer of QMUL EECS undergraduate level course ELE403 Internet Protocols, 2011-2012
- Lecturer of QMUL EECS Masters course AMCM051 The Semantic Web, 2011-2012
- Guest lecturer at Cambridge University Computer Laboratory, MPhil course on Network Architecture, 2010, 2011, 2012

#### PHD SUPERVISION

- PhD first supervisor Mengjia Niu (IoT and HDI, funded by CSC Imperial Scholarship), started October 2021.
- PhD first supervisor Yushan Huang (Machine Learning systems, funded by CSC Scholarship), started October 2021.
- PhD first supervisor, Xavier Cadet (Artificial Intelligence for Health, funded by UKRI CDT in AI for Healthcare), started November 2020.
- PhD first supervisor, Eman Maali (IoT Security, funded by Schlumberger Foundation), started January 2020.
- PhD co-supervisor, Ranya Aloufi, Privacy in IoT, funded by Saudi Arabian Cultural Bureau, started January 2019.
- PhD first supervisor, Yuting Zhan, Human Data Interaction, funded by CSC Imperial Scholarship, started October 2018.
- PhD first supervisor, Fan Mo, Privacy-preserving Mobile Computing, funded by CSC Scholarship, started October 2018

#### CURRENT STAFF

- Dr Yuchen Zhao, Postdoctoral Research Associate on the UK-DRI Project
- Dr Anna Maria Mandalari, Postdoctoral Research Associate on the EPSRC Impact Acceleration Award
- Dr YuanyingZhao (ESRC Postdoctoral Fellow)

#### GRADUATED PHD STUDENTS

- Dr Ali Shahin Shamsabadi, Privacy-preserving Deep Learning, funded by QMUL CIS Scholarship, Graduated January 2021
- Dr Mohammad Malekzadeh, Privacy-preserving health analytics on the Databox, funded by QMUL Life Science Institute, Graduated January 2021
- Dr Katrin Hansel, PhD student QMUL EECS, wearables for obesity and health, graduated April 2019
- Dr Kleomenis Katevas, PhD student QMUL EECS, Crowd security control and interactions, DSTL-funded, PhD graduated August 2018
- Dr Marjan FalahRastegar, PhD student QMUL EECS, Privacy-preserving user profiling, PhD graduated December 2016

- Dr Kuan Hon, QMUL Centre for Commercial Law studies, Data privacy in cloud computing from legal perspective, PhD graduated October 2015, now a legal consultant

#### VISITING RESEARCHERS

- Professor Hamid R. Rabiee, Professor at Sharif University of Technology, (2017-2018)
- Professor Srinivasan Keshav, Professor and Cisco Chair in the Cheriton School of Computer Science at the University of Waterloo, Summer 2017

#### PAST POSTDOCS AND RESEARCHERS

- Dr Roman Kolcun, Postdoctoral Research Associate on the DADA Project (2018-2021)
- Dr Kleomenis Katevas, Postdoctoral Research Associate on the Databox Project (2018-2020)
- Dr Sandra Servia, Postdoctoral Research Associate on the EPSRC Databox project, October 2016 - August 2017
- Dr Sara Heitlinger, Postdoctoral Research Associate on the EPSRC Connected Seeds and Sensors project, October 2015 - March 2017
- Dr Nanda Khaorapapong, Research Engineer on the EPSRC Connected Seeds and Sensors project, 2016-2017
- Dr Vasile Claudiu Perta, Research intern student, June-December 2014
- Marjan FalahRastegar, Research Assistant, EPSRC Privacy Value Project, Feb-Jun 2012

#### PHD EXAMINATION COMMITTEE

- PhD examiner, Brij Mohan Lal Srivastava, Lille university and INRIA Lille, December 2021
- PhD examiner, Michael Andreas Haus, Technical University of Munich, January 2021
- PhD examiner, Mohammed Ayyoob Ahamed Hamza, UNSW Sydney, November 2020
- PhD examiner, Anders Tungeland Gjerdrum, UiT The Arctic University of Norway, November 2020
- PhD examiner, Yifan Du, INRIA, France, July 2020
- PhD examiner, Liuqing Chen, Imperial College London, January 2020
- PhD examiner, William Wilkinson, Queen Mary University London, September 2019
- PhD examiner, Athanasios Andreou, EURECOM & UPMC, June 2019
- PhD examiner, Costas Iordanou, Technische Universitat Berlin, February 2019
- PhD examiner, Feng She, Imperial College London, October 2018
- PhD examiner, Luca Melis, UCL, July 2018
- PhD examiner, Luca Vassio, Politecnico di Torino, March 2018
- PhD examiner, Yang Liu, University of Oxford, February 2018
- PhD examiner, Valerio Ciotti, Queen Mary University London, October 2017
- PhD examiner, Gregory Tsipenyuk, University of Cambridge, September 2017
- PhD examiner, Liam Turner, Cardiff University, July 2017
- PhD examiner, Sultan Alanazi, University of Nottingham, May 2017
- PhD examiner, Noradila Nordin, UCL, May 2017
- PhD examiner, Valentin Radu, University of Edinburgh, March 2017
- PhD examiner, Antonio Lima, University of Birmingham, June 2016
- PhD examiner, Dong Wang, Institute of Computing Technology (ICT), Chinese Academy of Sciences(CAS), October 2015
- PhD examiner, Suranga Seneviratne, University of New South Wales & NICTA, August 2015
- PhD examiner, Tulio de Souza, University of Oxford, July 2015
- PhD examiner, Danny Matthews, University of Sussex, December 2014
- PhD examiner, Vasileios Giotsas, UCL, September 2014
- PhD examiner, Jiefeng Chen, The University of New South Wales, April 2014
- PhD examiner, Antonio Davoli, Sapienza University of Rome, November 2013
- PhD examiner, Anastasios Noulas, Computer Laboratory, University of Cambridge, October 2013

#### PROFESSIONAL AND COMMUNITY ACTIVITIES

- Taught Programme External Examiner for the MSc in Computer Science programme at Trinity College Dublin (2021-)

- TPC for The 20th USENIX Symposium on Networked Systems Design and Implementation (NSDI 2023)
- TPC for The 2022 ACM Special Interest Group on Data Communication (ACM SIGCOMM 2022)
- TPC for The 2nd Workshop on Machine Learning and Systems (EuroMLSys'22)
- TPC for The 28th ACM Annual International Conference on Mobile Computing and Networking (ACM MobiCom 2022)
- TPC for The 2022 ACM SIGMETRICS/IFIP Performance conference (ACM SIGMETRICS/Performance 2022)
- Taught Programme External Examiner for UCL Telecommunications MSc Programmes Board of Examiners (2017-2021)
- TPC for The 17th International Conference on emerging Networking EXperiments and Technologies (ACM CoNEXT 2021)
- TPC for The ACM/IRTF Applied Networking Research Workshop 2021 (ANRW'21)
- TPC co-chair, 5th Network Traffic Measurement and Analysis Conference (IFIP TMA Conference 2021)
- TPC for The 44th ACM SIGIR Conference on Research and Development in Information Retrieval (ACM SIGIR 2021)
- TPC for The 27th ACM Annual International Conference on Mobile Computing and Networking (ACM MobiCom 2021)
- TPC for The 19th ACM International Conference on Mobile Systems, Applications, and Services (ACM MobiSys 2021)
- TPC for Distributed and Private Machine Learning workshop at ICLR 2021 (DPML 2021)
- The 1st Workshop on Machine Learning and Systems (EuroMLSys 2021)
- TPC for The 18th USENIX Symposium on Networked Systems Design and Implementation (NSDI 2021)
- co-Chair, UK Multi-Service Networks workshop (2014 - 2021)
- Member of Editorial Board for the ACM SIGCOMM Computer Communication Review (Nov 2017- Dec 2020)
- TPC co-Chair for Third UK Mobile, Wearable and Ubiquitous Systems Research Symposium (MobiUK 2020)
- TPC for The 43rd International ACM SIGIR Conference on Research and Development in Information Retrieval (ACM SIGIR 2020)
- TPC for ACM SIGCOMM Internet Measurement Conference 2020 (IMC 2020)
- General Chair for The 26th ACM Annual International Conference on Mobile Computing and Networking (ACM MobiCom 2020)
- TPC for The 26th ACM Annual International Conference on Mobile Computing and Networking (ACM MobiCom 2020)
- TPC for The Web Conference, 2020 (WWW 2020)
- TPC for The 13th ACM International Conference on Web Search and Data Mining WSDM 2020)
- TPC for The 17th USENIX Symposium on Networked Systems Design and Implementation (NSDI 2020)
- Member of Editorial Board for the Royal Society Open Science (Computer Sciences section, March 2017 until December 2019)
- Steering Committee of ACM CoNext Conference (2016 - 2019)
- TPC for ACM SIGCOMM Internet Measurement Conference 2019 (IMC 2019)
- TPC for The 15th ACM International Conference on emerging Networking EXperiments and Technologies (CoNEXT 2019)
- TPC for The 25th ACM Annual International Conference on Mobile Computing and Networking (ACM MobiCom 2019)
- TPC for The 1st International Workshop on Federated Machine Learning for Data Privacy (FML 2019)
- TPC for The 12th ACM International Conference on Web Search and Data Mining (WSDM 2019)
- TPC for The Web Conference 2019 (WWW 2019, User Modeling, Personalization and Experience

track)

- Steering Committee Chair, London Networking ([www.london-networking.org](http://www.london-networking.org) 2011 - 2018)
- TPC for ACM SIGCOMM Internet Measurement Conference 2018 (IMC 2018)
- General Co-Chair for The 26th IEEE International Conference on Network Protocols (ICNP 2018)
- TPC for The 24th ACM Annual International Conference on Mobile Computing and Networking (ACM MobiCom 2018)
- TPC for ACM SIGCOMM 2018 Workshop on IoT Security and Privacy (IoT S&P 2018)
- TPC for The 1st ACM SIGMOBILE International Workshop on Edge Systems, Analytics and Networking (EdgeSys 2018)
- TPC for 16th ACM International Conference on Mobile Systems, Applications, and Services (MobiSys 2018 Poster session)
- TPC for IEEE/IFIP International Workshop on Decentralized Orchestration and Management of Distributed Heterogeneous Things (DOMINOS 2018)
- TPC for Network Traffic Measurement and Analysis Conference (TMA 2018)
- TPC for The International Teletraffic Congress (ITC 30)
- TPC for The 8th ACM Digital Health conference (DH 2018)
- TPC for The Web Conference 2018 (WWW 2018, Track: Web of Things, Mobile and Ubiquitous Computing)
- Steering Committee of ACM SenSys Conference (2014 - 2017)
- Member of Editorial Board for Springer Journal of Internet Services and Applications (JISA), (2012 - 2017)
- Information Service Director of ACM SIGCOMM Executive Committee (July 2013 - July 2017)
- TPC for ACM SIGCOMM Internet Measurement Conference 2017 (IMC 2017)
- Shadow TPC co-Chair for for ACM SIGCOMM Internet Measurement Conference 2017 (IMC 2017)
- Publicity co-Chair for ACM SIGCOMM Internet Measurement Conference 2017 (IMC 2017)
- Travel Grant Co-Chair for ACM SIGCOMM 2017 conference
- TPC for ACM SIGCOMM 2017 Workshop on Mobile Edge Communications (MECOMM 2017)
- TPC for ACM SIGCOMM 2017 Reproducibility Workshop (Reproducibility 2017)
- TPC for 11th EAI International Conference on Pervasive Computing Technologies for Healthcare (PervasiveHealth 2017)
- TPC for 3rd IEEE International Workshop on Legal and Technical Issues in Cloud Computing and the Internet of Things (Claw 2017)
- TPC for Network Traffic Measurement and Analysis Conference (TMA 2017)
- TPC for International AAAI Conference on Weblogs and Social Media (ICWSM 2013, ICWSM 2014, ICWSM 2015, ICWSM 2016, ICWSM 2017)
- TPC for 26th International World Wide Web Conference (WWW 2017 , User Modeling, Personalization, and Experience track)
- Senior TPC for 7th International Digital Health conference 2017
- Topic Editor in Frontiers in Digital Health 2017 (Research Topic: Digital Data for Nutrition, Healthy Eating and Exercise)
- TPC for 9th IEEE International Workshop on Network Science for Communication Networks (NetSciCom 2017)
- TPC for The Annual Workshop on Simplifying Complex Networks for Practitioners (SIMPLEX 2015, SIMPLEX 2016)
- TPC for The 8th EAI International Conference on Mobile Computing, Applications and Services (MobiCASE 2016)
- TPC for 12th ACM SIGCOMM Asian Internet Engineering Conference (AINTEC 2016)
- TPC for ACM SIGCOMM 2016 Poster/Demo committee
- TPC for 2nd Annual International Conference on Computational Social Science (ICCSS 2016)
- TPC co-chair for 1st ACM MobiSys Workshop on Mobile Data (MOBIDATA 2016)
- TPC for 3rd ACM MobiSys International Workshop on Physical Analytics (WPA 2016)
- Publicity Chair for ACM SIGCOMM 2016 conference



- Track co-chair for ACM Digital Health Conference (ACM DH 2016, Social Computing for Health Track)
- TPC for IEEE International Conference on Distributed Computing Systems (ICDCS 2015, ICDCS 2016)
- TPC for the 25th International World Wide Web Conference (WWW 2016 , mobility track)
- TPC for the IEEE International Conference on Communications 2016 (ICC 2016 , Social Networking track)
- co-chair for The Alan Turing Institute Symposium on Responsible, Ethics-Aware Research & Innovation in Data Science (March 2016)
- TPC for IEEE Workshop on Smart Data Pricing (SDP2014, SDP2015 and SDP2016 with IEEE INFOCOM)
- TPC for The 9th ACM International Conference on Web Search and Data Mining (WSDM 2016)
- TPC for The 8th IFIP Traffic Monitoring and Analysis workshop (TMA 2016)
- TPC for IEEE International workshop on Hot Topics in P2P computing & Online Social Networking (HotPOST 2012, HotPOST 2013, HotPOST 2015, HotPOST 2016)
- TPC for The 2nd IEEE Workshop on Legal and Technical Issues in Cloud Computing and the Internet of Thing 2016
- TPC co-Chair for ACM CoNext 2015 Shadow program committee
- Publicity Chair for ACM ACM Conference on emerging Networking EXperiments and Technologies (CoNext 2015)
- TPC for 7th International Conference on Mobile Computing, Applications and Services (MobiCASE 2015)
- TPC for 11th ACM SIGCOMM Asian Internet Engineering Conference (AINTEC 2015)
- TPC for IEEE GLOBECOM 2015 conference
- TPC for International AAAI Conference on Weblogs and Social Media (ICWSM 2013, ICWSM 2014, ICWSM 2015)
- 12th IEEE International Conference on Ubiquitous Intelligence and Computing (UIC 2015)
- TPC for 1st IEEE International Workshop on Legal and Technical Issues in Cloud Computing (CLaw 2015)
- TPC for seventh International Workshop on Traffic Monitoring and Analysis (TMA 2015)
- Local Arrangements co-Chair for ACM SIGCOMM 2015 conference
- Scientific Committee of Data Natives workshop, City university London, May 2015
- TPC for Sixth International Conference on Mobile Computing, Applications and Services (MobiCASE 2014)
- TPC for IEEE/ACM The International Workshop on Cyber-Physical Cloud Computing (CPCC 2014)
- TPC/Workshops co-chair for the 6th ASE International Conference on Privacy, Security, Risk and Trust (PASSAT 2014)
- Reviewer Board Member, “Propagation Phenomena in Real World Networks”, Springer Book, Intelligent Systems Reference Library series 2014
- TPC for 44th IEEE/IFIP International Conference on Dependable Systems and Networks (DSN 2014)
- IEEE Workshop on Privacy and Anonymity for the Digital Economy (PADE 2014)
- TPC for 1st International Workshop on Hot Topics in Big Data and Networking (HotData14, with IEEE ICCCN)
- TPC for IEEE GLOBECOM (2009, 2010, 2011, 2012, 2013, 2014)
- TPC for International Workshop on Computational Advertising (WCA-2014)
- TPC for IEEE International Conference on Multimedia and Expo (ICME 2013, 2014)
- General Chair for Sixth International Workshop on Hot Topics in Peer-to-peer computing and Online Social neTworking (HotPOST 2014)
- TPC for 5th Workshop on Simplifying Complex Networks for Practitioners (SIMPLEX 2014, with WWW Conference)
- TPC for 5th International Conference on Sensor Systems and Software (S-CUBE 2014)
- Co-Chair for EPSRC ITaaU workshop on Human-Data Interaction (HDI 2013)

- TPC co-Chair for ACM SIGCOMM HotPlanet workshop 2013
- Editor: ACM SIGCOMM Open Source eBook in Advanced Topics in Networking (2013)
- TPC for IEEE LCN Workshop on Privacy and Anonymity in Digital Economy (PADE 2013)
- Organising Committee for 8th Workshop on Secure Network Protocols (NPsec 2013) in conjunction with ICNP 2013
- TPC for World Wide Web Conference (WWW 2013)
- Shadow-heavy TPC for EuroSys 2013
- TPC for Workshop on Open Resilient human-aware Cyber-physical Systems (WORCS-2013)
- TPC for The Internet, Interdisciplinarity & Innovation (In3): The first international conference on Internet Science 2013
- TPC co-Chair for EuroSys workshop Measurement, Privacy, Mobility (MPM 2012)
- Co-Chair for EPSRC workshop on communications and networks (COMNET 2012)
- TPC for IEEE Symposium on Green Technology and Systems (ISGTS 2012)
- TPC for ACM SIGMETRICS workshop on Privacy and Anonymity in Digital Economy (PADE 2012)
- TPC for IEEE Symposium on Business, Engineering & Industrial Applications (ISBEIA 2012)
- TPC for IEEE International Power and Energy Conference (PECON 2012)
- TPC for ACM HotPlanet 2012
- TPC for IEEE International Workshop on Social Networks and TV (CCNC'2012 SNTV)
- TPC for ACM Conext Student Workshop (2011)
- TPC for First International Workshop on Enterprise Cloud Computing (ECCPL 2011)
- TPC for ICCCN 2011 Workshop on Social Interactive Media Networking and Applications (SIMNA 2011)
- TPC for 4<sup>th</sup> Workshop on Pervasive Advertising (Pervasive 2011)
- TPC for International Conference on Digital Information and Communication Technology (DICTAP 2011)
- TPC for IEEE Workshop on Complex and Communication Networks (CCNet 2010)
- TPC for IEEE CCNC Workshop on Social Networking 2011
- TPC for Eurosys Social Network Systems 2009
- TPC for IEEE ICUMT 2009
- TPC for 1st International Workshop on Emerging Internet Applications (WEIA'09)
- TPC for International Congress on Modelling and Simulation( ModSim'09)
- Guest Editor for MASAUM Journal of Basic and Applied Sciences (MJBAS)
- Reviewer for IEEE Signal Processing Magazine, ACM Transactions on the Web (TWEB), ACM SIGCHI 2016, IEEE JSAC Special issue on Measuring and Troubleshooting the Internet, ACM SIGCOMM Computer Communications Review (CCR), ACM Transactions on Modeling and Performance Evaluation of Computing Systems, PLOS ONE, Network Science, ACM UbiComp 2014, ACM ISWC 2014, SocInfo 2014, Transactions on Database Systems, Computers in Human Behavior, IEEE Transaction on Mobile Computing (TMC), IEEE Transactions on Parallel and Distributed Systems, IEEE Internet Computing, IEEE Communications Letters, IEEE JSAC on Network Science, IEEE Network, IET Networks, World Wide Web Journal, International Journal of Human-Computer Studies, MDPI Entropy, Springer World Wide Web Journal, Elsevier COMNET, Elsevier Social Networks, Elsevier Computer Communications, Wiley's handbook on Computer Networks, European Conference on Information Systems (ECIS), Springer Journal of the Network and Systems Management, Springer book 'Cloud Computing for Enterprise Architectures', Kunstliche Intelligenz (Artificial Intelligence), China Communications, IEEE Signal Processing Magazine, Wireless Networks (WINET), Springer Social Network Analysis and Mining (SNAM), New Media & Society, Springer "Propagation Phenomena in Real World Networks",
- External Reviewer for 7<sup>th</sup> IEEE WiMob (2011), IEEE/ACM MASCOTS, ACM SIGCOMM, IEEE INFOCOMM, IEEE/ACM ToN, USENIX NSDI, ACM IMC, BCS HCI , ACM CSCW

PUBLIC  
ENGAGEMENT  
EVENTS

- Demonstration and Hackathon at Mozilla Festival 2018
- Databox Hackathon, July 2017, Darwin College Cambridge
- Demonstration at BT Innovation Show 2017

- QMUL Community Collaboration Award for Research 2017
- Demonstration at Mozilla Festival 2016
- Leading Scoping workshops at the Alan Turing Institute 2016
- Royal Veterinary College Public Engagement demonstration 2012