

Tristan Henderson

Senior Lecturer in Computer Science

School of Computer Science
University of St Andrews
St Andrews, KY16 9SX, UK
☎ +44 1334 461637
☎ +44 1334 463278
✉ tnhh@st-andrews.ac.uk
🌐 tnhh.org
🐦 [tnhh](https://twitter.com/tnhh)
🌐 [tristanhenderson](https://www.linkedin.com/in/tristanhenderson)



Education

- 1999–2003 **Ph.D, Computer Science, University College London, London, UK.**
thesis: *The effects of relative delay in networked games*
- 1998 **M.Sc with Distinction, Computer Science, University College London, London, UK.**
thesis: *A high-quality streaming music codec for the Internet*
- 2001 **M.A. (honorary), Emmanuel College, University of Cambridge, Cambridge, UK.**
- 1994–1997 **B.A., Economics, Emmanuel College, University of Cambridge, Cambridge, UK.**
thesis: *How efficient is the pricing structure of the UK mobile phone industry?*

Appointments

- 08/2011– **Senior Lecturer, School of Computer Science, University of St Andrews, St Andrews, UK.**
- 12/2006–07/2011 **Lecturer, School of Computer Science, University of St Andrews, St Andrews, UK.**
- 11/2004–11/2006 **Research Assistant Professor, Department of Computer Science, Dartmouth College, Hanover, NH, USA.**
- 10/2003–11/2004 **Postdoctoral Research Fellow, Institute for Security Technology Studies, Dartmouth College, Hanover, NH, USA.**

Publications

Journal papers and book chapters

1. L. Hutton and T. Henderson. Beyond the EULA: Improving consent for data mining. In T. Cerquitelli, D. Quercia, and F. Pasquale, editors, *Towards Transparent data mining for Big and Small Data*, volume 11 of *Studies in Big Data*, chapter 7, pages 147–167. Springer, 2017. doi:10.1007/978-3-319-54024-5_7.
2. R. Mortier, H. Haddadi, T. Henderson, D. McAuley, J. Crowcroft, and A. Crabtree. Human-data interaction. In M. Soegaard and R. F. Dam, editors, *Encyclopedia of Human-Computer Interaction*, chapter 41. Interaction Design Foundation, Aarhus, Denmark, 2016. Online at <https://www.interaction-design.org/literature/book/the-encyclopedia-of-human-computer-interaction-2nd-ed/human-data-interaction>.
3. L. Hutton and T. Henderson. Towards reproducibility in online social network research. *IEEE Transactions on Emerging Topics in Computing*, 2015. doi:10.1109/TETC.2015.2458574.
4. T. Henderson and D. Kotz. Data citation practices in the CRAWDAD wireless network data archive. *D-Lib Magazine*, 21(1/2), January/February 2015. doi:10.1045/january2015-henderson.
5. K. Musayeva, T. Henderson, J. B. O. Mitchell, and L. Mavridis. PFClust: an optimised implementation of a parameter-free clustering algorithm. *Source Code for Biology and Medicine*, 9(5), February 2014. doi:10.1186/1751-0473-9-5.

6. I. Parris, F. Ben Abdesslem, and T. Henderson. Facebook or Fakebook?: The effects of simulated mobile applications on simulated mobile networks. *Ad Hoc Networks*, 12:35–49, January 2014. doi:10.1016/j.adhoc.2012.05.008.
7. G. Bigwood and T. Henderson. Incentive-aware opportunistic network routing. In I. Woungang, S. K. Dhurandher, A. Anpalagan, and A. V. Vasilakos, editors, *Routing in Opportunistic Networks*. Springer-Verlag, 2013. doi:10.1007/978-1-4614-3514-3_14.
8. L. Hutton and T. Henderson. An architecture for ethical and privacy-sensitive social network experiments. *ACM SIGMETRICS Performance Evaluation Review*, 40(4):90–95, April 2013. doi:10.1145/2479942.2479954.
9. F. Ben Abdesslem, I. Parris, and T. Henderson. Reliable online social network data collection. In A. Abraham and A. Ella Hassanien, editors, *Computational Social Networks: Mining and Visualization*, volume 3 of *Springer Computer Communications and Networks Series*, chapter 8, pages 183–210. Springer-Verlag, London, UK, 2012. doi:10.1007/978-1-4471-4054-2_8.
10. I. Parris and T. Henderson. Privacy-enhanced social-network routing. *Computer Communications*, 35(1):62–74, 01 January 2012. doi:10.1016/j.comcom.2010.11.003.
11. H. Haddadi, P. Hui, T. Henderson, and I. Brown. Targeted advertising on the handset: Privacy and security challenges. In J. Müller, F. Alt, and D. Michelis, editors, *Pervasive Advertising*, Springer Human-Computer Interaction Series, chapter 6, pages 119–137. Springer-Verlag, Heidelberg, Germany, September 2011. doi:10.1007/978-0-85729-352-7_6.
12. T. Henderson, D. Kotz, and I. Abyzov. The changing usage of a mature campus-wide wireless network. *Computer Networks*, 52(14):2690–2712, 09 October 2008. doi:10.1016/j.comnet.2008.05.003.
13. Y. Sheng, G. Chen, K. Tan, U. Deshpande, B. Vance, H. Yin, C. McDonald, T. Henderson, D. Kotz, A. Campbell, and J. Wright. MAP: A scalable monitoring system for dependable 802.11 wireless networks. *IEEE Wireless Communications*, 15(5):10–18, October 2008. doi:10.1109/MWC.2008.4653127.
14. D. Anthony, T. Henderson, and D. Kotz. Privacy in Location Aware Computing Environments (PLACE): How users’ social context influences willingness to share location information. *IEEE Pervasive Computing*, 6(4):64–72, October-December 2007. doi:10.1109/MPRV.2007.83.
15. T. Henderson and D. Kotz. Measuring wireless LANs. In R. Shorey, A. L. Ananda, M. C. Chan, and W. T. Ooi, editors, *Mobile, Wireless and Sensor Networks: Technology Applications and Future Directions*, pages 5–27. John Wiley & Sons, New York, NY, USA, April 2006. doi:10.1002/0471755591.ch1.

Conference and workshop papers

1. C. Norval and T. Henderson. Contextual consent: Ethical mining of social media for health research. In *Proceedings of the WSDM 2017 Workshop on Mining Online Health Reports*, Cambridge, UK, February 2017. Online at <http://arxiv.org/abs/1701.07765>.
2. Y. Zhao, J. Ye, and T. Henderson. A robust reputation-based location-privacy recommender system using opportunistic networks. In *Proceedings of MobiCASE 2016*, Cambridge, UK, November 2016. doi:10.4108/eai.30-11-2016.2267031.
3. Y. Zhao, J. Ye, and T. Henderson. The effect of privacy concerns on privacy recommenders. In *Proceedings of the ACM International Conference on Intelligent User Interfaces (IUI)*, pages 218–227, Sonoma, CA, USA, March 2016. doi:10.1145/2856767.2856771.
4. L. Hutton and T. Henderson. Some challenges for ethics in social network research. In *Proceedings of the 2015 ACM SIGCOMM Workshop on Ethics in Networked Systems Research*, pages 13–15, London, UK, August 2015. doi:10.1145/2793013.2793023.
5. L. Hutton and T. Henderson. “I didn’t sign up for this!”: Informed consent in social network research. In *Proceedings of the 9th International AAAI Conference on Web and Social Media (ICWSM)*, pages 178–187, Oxford, UK, May 2015. Online at <http://www.aaai.org/ocs/index.php/ICWSM/ICWSM15/paper/view/10493>.

6. L. Hutton and T. Henderson. Making social media research reproducible. In *Proceedings of the ICWSM Workshop on Standards and Practices in Large-Scale Social Media Research*, pages 2–7, Oxford, UK, May 2015. Online at <http://www.aaai.org/ocs/index.php/ICWSM/ICWSM15/paper/view/10629>.
7. Y. Zhao, J. Ye, and T. Henderson. Privacy-aware location privacy preference recommendations. In *Proceedings of the 11th International Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services (MobiQuitous)*, pages 120–129, London, UK, December 2014. doi:10.4108/icst.mobiquitous.2014.258017.
8. T. Henderson and D. Kotz. Data citation practices in the CRAWDAD wireless network data archive. In *Proceedings of the Second Workshop on Linking and Contextualizing Publications and Datasets*, London, UK, September 2014.
9. L. Hutton, T. Henderson, and A. Kapadia. “Here I am, now pay me!”: privacy concerns in incentivised location-sharing systems. In *Proceedings of the 7th ACM Conference on Security and Privacy in Wireless and Mobile Networks (WiSec)*, pages 81–86, Oxford, UK, July 2014. doi:10.1145/2627393.2627416.
10. T. Henderson and D. Kotz. CRAWDAD: A wireless network data archive for WiSec researchers. In *Proceedings of the 7th ACM Conference on Security and Privacy in Wireless and Mobile Networks (WiSec)*, Oxford, UK, July 2014. Poster paper, doi:10.6084/m9.figshare.3793146.v2.
11. Y. Zhao, J. Ye, and T. Henderson. Recommending location privacy preferences in ubiquitous computing. In *Proceedings of the 7th ACM Conference on Security and Privacy in Wireless and Mobile Networks (WiSec)*, Oxford, UK, July 2014. Poster paper, doi:10.6084/m9.figshare.3793149.v1.
12. I. Parris and T. Henderson. Friend or flood? social prevention of flooding attacks in opportunistic networks. In *Proceedings of the 6th International Workshop on Hot Topics in Peer-to-peer computing and Online Social Networking (HotPOST)*, Madrid, Spain, June 2014. doi:10.1109/icdcs.2014.8.
13. R. Mortier, H. Haddadi, T. Henderson, D. McAuley, and J. Crowcroft. Challenges & opportunities in human-data interaction. In *Proceedings of DE2013: Open Digital — The Fourth Annual Digital Economy All Hands Meeting*, Salford, UK, November 2013. Online at <http://de2013.org/wp-content/uploads/2013/09/de13-hdi.pdf>.
14. S. Pal and T. Henderson. MobOCloud: Extending cloud computing with mobile opportunistic networks. In *Proceedings of ACM CHANTS 2013*, Miami, FL, USA, September 2013. doi:10.1145/2505494.2505503.
15. S. McNeilly, L. Hutton, and T. Henderson. Understanding ethical concerns in social media privacy studies. In *Proceedings of the ACM CSCW Workshop on Measuring Networked Social Privacy: Qualitative & Quantitative Approaches*, San Antonio, TX, USA, February 2013. Online at <https://tnhh.org/research/pubs/mnsp2013.pdf>.
16. T. Henderson, L. Hutton, and S. McNeilly. Ethics and online social network research – developing best practices. In *BCS HCI Workshop on HCI Research in Sensitive Contexts: Ethical Considerations*, Birmingham, UK, September 2012. Online at <https://tnhh.org/research/pubs/bcsethics2012.pdf>.
17. G. Bigwood, F. Ben Abdesslem, and T. Henderson. Predicting location-sharing privacy preferences in social network applications. In *Proceedings of the First Workshop on recent advances in behavior prediction and pro-active pervasive computing (AwareCast)*, Newcastle, UK, June 2012. Online at http://www.ibr.cs.tu-bs.de/dus/Awarecast/awarecast2012_submission_1.pdf.
18. L. Hutton and T. Henderson. An architecture for ethical and privacy-sensitive social network experiments. In *Proceedings of the ACM SIGMETRICS Workshop on Privacy and Anonymity for the Digital Economy*, London, UK, June 2012. Online at <http://pade12.mytestbed.net/pade12-final4.pdf>.
19. F. Ben Abdesslem, T. Henderson, S. Brostoff, and M. A. Sasse. Context-based personalised settings for mobile location sharing. In *Proceedings of the ACM Recommender Systems Workshop on Personalization in Mobile Applications*, Chicago, IL, USA, October 2011. Online at <https://tnhh.org/research/pubs/pema2011.pdf>.

20. G. Bigwood and T. Henderson. IRONMAN: Using social networks to add incentives and reputation to opportunistic networks. In *Proceedings of the Third IEEE International Conference on Social Computing (SocialCom)*, pages 65–72, Boston, MA, USA, October 2011. doi:10.1109/PASSAT/SocialCom.2011.60.
21. I. Parris and T. Henderson. Practical privacy-aware opportunistic networking. In *Proceedings of the British HCI Doctoral Consortium*, pages 553–557, Newcastle-upon-Tyne, UK, July 2011. British Computer Society. Online at <https://tnhh.org/research/pubs/hci2011.pdf>.
22. G. Bigwood and T. Henderson. Bootstrapping opportunistic networks using social roles. In *Proceedings of the Fifth IEEE WoWMoM Workshop on Autonomic and Opportunistic Communications (AOC)*, Lucca, Italy, June 2011. IEEE Computer Society Press. doi:10.1109/WoWMoM.2011.5986139.
23. I. Parris and T. Henderson. The impact of location privacy on opportunistic networks. In *Proceedings of the Fifth IEEE WoWMoM Workshop on Autonomic and Opportunistic Communications (AOC)*, Lucca, Italy, June 2011. IEEE Computer Society Press. doi:10.1109/WoWMoM.2011.5986149.
24. T. Henderson. Usable data-driven privacy research: should we be afraid of the big (bad?) data wolf? In *Proceedings of EuroSOUPS 2010*, Newcastle, UK, November 2010. Online at <http://www.cocolab.org/soups/papers/henderson-eurosoups2010.pdf>.
25. F. Ben Abdesslem and T. Henderson. Understanding mobile social behaviour using smartphones. In *Proceedings of the First Workshop on Observing the Mobile User Experience*, Reykjavik, Iceland, October 2010. Online at <https://tnhh.org/research/pubs/omue2010.pdf>.
26. F. Ben Abdesslem, I. Parris, and T. Henderson. Mobile experience sampling: Reaching the parts of Facebook other methods cannot reach. In *Proceedings of the Privacy and Usability Methods Pow-Wow (PUMP)*, Dundee, UK, September 2010. British Computer Society. Online at <http://scone.cs.st-andrews.ac.uk/pump2010/papers/benabdesslem.pdf>.
27. I. Parris, F. Ben Abdesslem, and T. Henderson. Facebook or Fakebook?: The effect of simulation on location privacy user studies. In *Proceedings of the Privacy and Usability Methods Pow-Wow (PUMP)*, Dundee, UK, September 2010. British Computer Society. Online at <http://scone.cs.st-andrews.ac.uk/pump2010/papers/parris.pdf>.
28. P. Hui, R. Mortier, M. Piorkowski, T. Henderson, and J. Crowcroft. Planet-scale human mobility measurement. In *Proceedings of the Second ACM International Workshop on Hot Topics in Planet-Scale Measurement (HotPlanet)*, San Francisco, CA, USA, June 2010. ACM Press. doi:10.1145/1834616.1834618.
29. I. Parris, G. Bigwood, and T. Henderson. Privacy-enhanced social network routing in opportunistic networks. In *Proceedings of the IEEE International Workshop on SECURITY and SOCIAL Networking (SESOC 2010)*, pages 624 – 629, Mannheim, Germany, March 2010. IEEE Computer Society Press. doi:10.1109/PERCOMW.2010.5470511.
30. F. Ben Abdesslem, A. Phillips, and T. Henderson. Less is more: Energy-efficient mobile sensing with SenseLess. In *Proceedings of the First ACM SIGCOMM Workshop on Networking, Systems, Applications on Mobile Handhelds (MobiHeld)*, Barcelona, Spain, August 2009. ACM Press. Poster paper, doi:10.1145/1592606.1592621.
31. T. Henderson and F. Ben Abdesslem. Scaling measurement experiments to planet-scale: ethical, regulatory and cultural considerations. In *Proceedings of the First ACM International Workshop on Hot Topics of Planet-scale Mobility Measurements (HotPlanet)*, Krakow, Poland, June 2009. ACM Press. doi:10.1145/1651428.1651436.
32. D. Anthony, T. Henderson, and J. Kitts. Trust and privacy in distributed work groups. In *Proceedings of the 2nd International Workshop on Social Computing and Behavioral Modeling*, pages 16–23, Phoenix, AZ, USA, March 2009. Springer-Verlag. doi:10.1007/978-1-4419-0056-2_4.
33. G. Bigwood, T. Henderson, and S. Bhatti. Social delay-tolerant network routing. In *Proceedings of the 2nd ICC Winter Workshop on Complexity in Social Systems*, Lisbon, Portugal, January 2009. Online at <https://tnhh.org/research/pubs/iccww2009.pdf>.

34. G. Bigwood and T. Henderson. Social DTN routing. In *Proceedings of ACM CoNEXT 2008 Student Workshop*, Madrid, Spain, December 2008. ACM Press. Poster abstract, doi:10.1145/1544012.1544047.
35. G. Bigwood, D. Rehunathan, M. Bateman, T. Henderson, and S. Bhatti. Exploiting self-reported social networks for routing in ubiquitous computing environments. In *Proceedings of the 1st International Workshop on Social Aspects of Ubiquitous Computing Environments (SAUCE)*, pages 484–489, Avignon, France, October 2008. IEEE Computer Society Press. doi:10.1109/WiMob.2008.86.
36. S. Bhatti, M. Bateman, D. Rehunathan, T. Henderson, G. Bigwood, and D. Miras. Revisiting inter-flow fairness. In *Proceedings of BROADNETS 2008*, pages 585–592, London, UK, September 2008. IEEE Computer Society Press. doi:10.1109/BROADNETS.2008.4769146.
37. M. Bateman, S. Bhatti, G. Bigwood, D. Rehunathan, C. Allison, T. Henderson, and D. Miras. A comparison of TCP behaviour at high speeds using ns-2 and Linux. In *Proceedings of the 11th Communications and Networking Simulation Symposium (CNS'08)*, pages 30–37, Ottawa, Canada, April 2008. ACM Press. doi:10.1145/1400713.1400718.
38. A. Kapadia, T. Henderson, J. Fielding, and D. Kotz. Virtual walls: Protecting digital privacy in pervasive environments. In *Proceedings of the 5th International Conference on Pervasive Computing*, number 4480 in LNCS, pages 162–179, Toronto, Canada, May 2007. Springer-Verlag. doi:10.1007/978-3-540-72037-9_10.
39. U. Deshpande, T. Henderson, and D. Kotz. Channel sampling strategies for monitoring wireless networks. In *Proceedings of the Second International Workshop on Wireless Network Measurements*, Boston, MA, USA, April 2006. IEEE Computer Society Press. doi:10.1109/WIOPT.2006.1666486.
40. D. Blinn, T. Henderson, and D. Kotz. Analysis of a Wi-Fi hotspot network. In *Proceedings of the International Workshop on Wireless Traffic Measurements and Modeling*, pages 1–6, Seattle, WA, USA, June 2005. USENIX Association. Online at http://www.usenix.org/events/mobisys05/witmemo05/tech/full_papers/blinn/blinn.pdf.
41. J. Yeo, M. Youssef, T. Henderson, and A. Agrawala. An accurate technique for measuring the wireless side of wireless networks. In *Proceedings of the International Workshop on Wireless Traffic Measurements and Modeling*, pages 13–18, Seattle, WA, USA, June 2005. USENIX Association. Online at http://www.usenix.org/events/mobisys05/witmemo05/tech/full_papers/yeo/yeo.pdf.
42. T. Henderson, D. Anthony, and D. Kotz. Measuring wireless network usage with the experience sampling method. In *Proceedings of the First Workshop on Wireless Network Measurements*, Trentino, Italy, April 2005. International Communications Sciences and Technology Association (ICST). Online at http://winmee.org/2005/papers/WiNMee_Henderson.pdf.
43. T. Henderson, D. Kotz, and I. Abyzov. The changing usage of a mature campus-wide wireless network. In *Proceedings of the Tenth Annual International Conference on Mobile Computing and Networking (MobiCom)*, pages 187–201, Philadelphia, PA, USA, September 2004. ACM Press. doi:10.1145/1023720.1023739.
44. T. Henderson and S. Bhatti. Networked games — a QoS-sensitive application for QoS-insensitive users? In *Proceedings of the ACM SIGCOMM workshop on Revisiting IP QoS*, pages 141–147, Karlsruhe, Germany, August 2003. ACM Press. doi:10.1145/944592.944601.
45. F. Fitzek, L. Badia, M. Zorzi, G. Schulte, P. Seeling, and T. Henderson. Mobility and stability evaluation in wireless multi-hop networks using multi-player games. In *Proceedings of the 2nd Workshop on Network and System Support for Games (NetGames)*, pages 177–185, Redwood City, CA, USA, May 2003. doi:10.1145/963900.963908.
46. M. Oliveira and T. Henderson. What online gamers really think of the Internet. In *Proceedings of the 2nd Workshop on Network and System Support for Games (NetGames)*, pages 69–79, Redwood City, CA, USA, May 2003. doi:10.1145/963900.963918.

47. T. Henderson. Observations on game server discovery mechanisms. In *Proceedings of the First Workshop on Network and System Support for Games (NetGames)*, pages 47–52, Braunschweig, Germany, April 2002. doi:10.1145/566500.566507.
48. T. Henderson. Latency and user behaviour on a multiplayer game server. In *Proceedings of the 3rd International Workshop on Networked Group Communication (NGC)*, pages 1–13, London, UK, November 2001. Springer-Verlag. doi:10.1007/3-540-45546-9_1.
49. T. Henderson and S. Bhatti. Modelling user behaviour in networked games. In *Proceedings of the 9th ACM International Conference on Multimedia (ACM Multimedia)*, pages 212–220, Ottawa, Canada, October 2001. ACM Press. doi:10.1145/500141.500175.
50. T. Henderson. Modelling multicast pricing using networked games. In *The 2000 ACM SIGCOMM Conference*, Stockholm, Sweden, August 2000. Poster paper, doi:10.6084/m9.figshare.3793143.v1.
51. T. Henderson and S. Bhatti. Protocol-independent multicast pricing. In *Proceedings of the 10th International Workshop on Network and Operating System Support for Digital Audio and Video (NOSSDAV)*, pages 11–17, Chapel Hill, NC, USA, June 2000. Online at <https://tnhh.org/research/pubs/nossdav00.pdf>.

Other articles

1. T. Henderson. From machine learning to precrime: prediction, consent and Tom Cruise. In *Gikii London 2016*, London, UK, September 2016. Online at <https://app.box.com/s/vxxzczipn8so68anmlej1wyvz0a324gvu>.
2. D.-G. Akestoridis and T. Henderson. Enabling useful data sharing through format identification and text mining. In *Repository Fringe 2016*, Edinburgh, UK, August 2016. Poster paper, doi:10.6084/m9.figshare.3793152.v1.
3. T. Henderson. Predicting consent in online social network health research. In *ENTER Mental Health & SDHI Conference*, St Andrews, UK, June 2016. Poster paper.
4. T. Henderson. Public review: Ethical research standards in a world of big data. *F1000Research*, March 2014. doi:10.5256/f1000research.3770.r3876.
5. A. Vasalou, T. Henderson, and A. Joinson. Editorial. *International Journal of Human-Computer Studies*, 71(12):1124–1125, December 2013. doi:10.1016/j.ijhcs.2013.09.003.
6. M. Abdallah, M. Claypool, and T. Henderson. Editorial. *International Journal of Advanced Media and Communication*, 4(4):299–301, 2010. Online at <http://www.inderscience.com/browse/getEditorial.php?articleID=2322>.
7. H. Haddadi, T. Henderson, and J. Crowcroft. The ambient loo: caught short when nature calls? *ACM SIGCOMM Computer Communication Review*, 40(2):78, April 2010. doi:10.1145/1764873.1764887.
8. J. Crowcroft, E. Yoneki, P. Hui, and T. Henderson. Promoting tolerance for delay tolerant network research. *ACM Computer Communication Review*, 38(5):63–68, October 2008. doi:10.1145/1452335.1452345.
9. J. Yeo, T. Henderson, and D. Kotz. Workshop report — CRAWDAD workshop 2007. *ACM Computer Communication Review*, 38(3):79–82, July 2008. doi:10.1145/1384609.1384619.
10. T. Henderson. Sharing is caring — so where are your data? *ACM Computer Communication Review*, 38(1):43–44, January 2008. doi:10.1145/1341431.1341439.
11. T. Ormerod, A. Sandham, R. Bull, M. Jackson, L. Bai, S. Bhatti, T. Henderson, and E. Guest. Countering terrorism in public places: the D-Scent approach. *Contingency Today*, November 06, 2007. Online at http://www.contingencytoday.com/online_article/Countering-terrorism-in-public-places-the-D-Scent-approach/754.
12. J. Yeo, T. Henderson, and D. Kotz. Workshop report — CRAWDAD workshop 2006. *Mobile Computing and Communications Review*, 11(1):67–69, January 2007. Online at <https://tnhh.org/research/pubs/mc2r07.pdf>.

13. J. Yeo, D. Kotz, and T. Henderson. CRAWDAD: A Community Resource for Archiving Wireless Data at Dartmouth. *ACM Computer Communication Review*, 36(2):21–22, April 2006. doi:10.1145/1129582.1129588.
14. D. Kotz and T. Henderson. CRAWDAD: A Community Resource for Archiving Wireless Data at Dartmouth. *IEEE Pervasive Computing*, 4(4):12–14, October-December 2005. doi:10.1109/MPRV.2005.75.
15. T. Henderson and D. Kotz. Problems with the Dartmouth wireless SNMP data collection. Technical Report TR2003-480, Dept. of Computer Science, Dartmouth College, December 2003. Online at <http://www.cs.dartmouth.edu/reports/abstracts/TR2003-480/>.
16. T. Henderson, J. Crowcroft, and S. Bhatti. Congestion pricing — paying your way in communication networks. *IEEE Internet Computing*, 5(5):85–89, September/October 2001. doi:10.1109/4236.957899.

Research Support

- *Nordforsk/ESRC, Taking surveillance apart? Accountability and Legitimacy of Internet Surveillance and Expanded Investigatory Powers*, 2017–19. With Megan O’Neill (Dundee, PI), Jarmo Houtsonen (Police University College of Finland), Helene Gundhus (Norwegian Police University College), Iain Cameron (Uppsala).
- *JISC, Research Data Champion grant*, 2017–18.
- *Wellcome Trust, Towards contextual consent in social media health research*, 2016–17.
- *Scottish Informatics & Computer Science Alliance, Responsible Data Science*, 2016–17.
- *Russell Trust, Peer-review for university admissions*, 2015.
- *Scottish Informatics & Computer Science Alliance, Experimental Methodology in Computer Science Research Summer School*, 2014.
- *Association for Computing Machinery SIGMOBILE, CRAWDAD: A Community Resource for Archiving Wireless Data At Dartmouth*, 2011–16.
- *Association for Computing Machinery SIGCOMM, Community Projects programme, CRAWDAD: A Community Resource for Archiving Wireless Data At Dartmouth*, 2012.
- *EPSRC (subcontract via University of Oxford), Framework for Responsible Research and Innovation in ICT*, 2012.
- *EPSRC/ESRC/TSB Ensuring Privacy through Consent programme, Privacy Value Networks*, 2008–2011. With Ian Brown (Oxford), Adam Joinson (Bath), Angela Sasse (UCL).
- *Department of Homeland Security (through Institute for Security Technology Studies at Dartmouth College), Cross-layer peer-to-peer multimedia attacks*, 2006.
- *National Science Foundation, USA Research Experiences for Undergraduates programme*, 2006. Co-PI with David Kotz (PI).
- *Homeland Security Advanced Research Projects Agency, USA Cybersecurity programme, M.A.P. (Measure, Analyze, Protect): security through measurement for wireless LANs*, 2005–08. Co-PI with David Kotz (PI), Andrew Campbell and Guanling Chen (UMass Lowell).
- *National Science Foundation, USA Computing Research Infrastructure programme, CRI: A Community Resource for Archiving Wireless Data At Dartmouth: CRAWDAD*, 2005–08. Co-PI with David Kotz (PI).
- *US Department of Justice (through Institute for Security Technology Studies at Dartmouth College), Digital Living: Sensors, Privacy and Trust*, 2005–06. Co-PI with David Kotz (PI), Denise Anthony and Andrew Campbell.
- *Aruba Networks, wireless networking hardware donation*, 2005 and 2007.
- *Intel University Research Council, Modeling High-Throughput Wireless Networks Using Real-World Data*, 2004–07. With David Kotz (PI).
- *Worshipful Company of Scientific Instrument Makers, Freeman Scholar*, 2001.
- *Hewlett-Packard and EPSRC, Industrial CASE studentship*, 1999–2002.

Service

Advisory committees and groups

- Education Director, ACM SIGCOMM Executive Committee
- Member, EPSRC Peer Review College
- Member, JANET Wireless Advisory Group
- Steering Committee, ACM International Workshop on Hot Topics in Planet-Scale Measurement (HotPlanet)
- Steering Committee, Extreme Workshop on Communication (ExtremeCom)
- Steering Committee, International Workshop on Network and System Support for Games (NetGames)
- Steering Committee, SCottish Networking Event (SCONE)
- Deputy Theme Leader, SICSA (Scottish Informatics and Computer Science Alliance) Next Generation Internet theme

Editorial boards

- Area Editor, Networking and Communications, ACM Books, 2016–
- Guest Editor, International Journal of Human-Computer Studies, 2012
- Guest Editor, International Journal of Advanced Media and Communication 4(4), 2010

Technical Programme Co-chair

- BCS HCI Privacy and Usability Methods Pow-wow (PUMP), Dundee, UK, September 2010
- 2nd ACM International Workshop on Hot Topics in Planet-Scale Measurement (HotPlanet), San Francisco, CA, USA, June 2010
- 6th International workshop on Wireless Network Measurements (WinMee 2010), Avignon, France, May 2010
- 3rd CRAWDAD (Community Resource for Archiving Wireless Data At Dartmouth) workshop, ACM MobiCom 2007, Montreal, Canada, September 2007
- 2nd CRAWDAD (Community Resource for Archiving Wireless Data At Dartmouth) workshop, ACM MobiCom 2006, Los Angeles, CA, USA, September 2006
- 1st CRAWDAD (Community Resource for Archiving Wireless Data At Dartmouth) workshop, ACM MobiCom 2005, Cologne, Germany, September 2005

Technical programme committees

- 2018: • 32nd AAAI Conference on Artificial Intelligence (AAAI-18), New Orleans, LA, USA, February 2018
- 2017: • 12th ACM MobiCom Workshop on Challenged Networks (CHANTS), Snowbird, UT, USA, October 2017
- ACM SIGCOMM 2017 Reproducibility Workshop (Reproducibility '17), Los Angeles, CA, USA, August 2017
- SICSA 2017 PhD Conference, Dundee, UK, June 2017
- 3rd IEEE International Workshop on Legal and Technical Issues in Cloud Computing and the Internet of Things (CLaw), Vancouver, BC, Canada, April 2017
- 31st AAAI Conference on Artificial Intelligence (AAAI-17), San Francisco, CA, USA, February 2017
- 2016: • IEEE Globecom SAC on Social Networks, Washington, DC, USA, December 2016
- 8th International Conference on Mobile Computing, Applications and Services (MobiCASE), Cambridge, UK, November 2016
- 11th ACM MobiCom Workshop on Challenged Networks (CHANTS), New York, NY, USA, October 2016
- 7th ACM International Workshop on Hot Topics in Planet-Scale Measurement (HotPlanet), Heidelberg, Germany, September 2016
- ACM SIGCOMM GAIA (Global Access to the Internet for All) workshop, Salvador, Brazil, August 2016
- 1st ACM MobiSys Workshop on Mobile Data (MOBIDATA), Singapore, June 2016

- SOUPS Workshop on the Future of Privacy Indicators, Denver, CO, USA, June 2016
 - 10th IEEE WoWMoM Workshop on Autonomic and Opportunistic Communications (AOC), Coimbra, Portugal, June 2016
 - SICSA 2016 PhD Conference, Glasgow, UK, June 2016
 - IEEE ICC 2016 SAC on Social Networking, Kuala Lumpur, Malaysia, May 2016
 - 2nd IEEE International Workshop on Legal and Technical Issues in Cloud Computing and the Internet of Things (CLaw), Berlin, Germany, April 2016
- 2015:
- 7th International Conference on Mobile Computing, Applications and Services (MobiCASE), Berlin, Germany, November 2015
 - 6th ACM International Workshop on Hot Topics in Planet-Scale Measurement (HotPlanet), Paris, France, September 2015
 - 10th ACM MobiCom Workshop on Challenged Networks (CHANTS) Paris, France, September 2015
 - 4^{5h} Workshop on recent advances in behavior prediction and pro-active pervasive computing (AwareCast), Osaka, Japan, September 2015
 - 12th IEEE International Conference on Ubiquitous Intelligence and Computing (UIC), Beijing, China, August 2015
 - 9th IEEE WoWMoM Workshop on Autonomic and Opportunistic Communications (AOC), Boston, MA, USA, June 2015
 - ACM MobiSys workshop on Do-it-yourself Networking: an Interdisciplinary Approach, Florence, Italy, May 2015
 - 1st IEEE International Workshop on Legal and Technical Issues in Cloud Computing (CLaw), Tempe, AZ, USA, March 2015
- 2014:
- 11th International Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services (Mobi ubiquitous), London, UK, December 2014
 - 9th ACM MobiCom Workshop on Challenged Networks (CHANTS) Maui, HI, USA, September 2014
 - 3rd Workshop on recent advances in behavior prediction and pro-active pervasive computing (AwareCast), Seattle, WA, USA, September 2014
 - 8th IEEE WoWMoM Workshop on Autonomic and Opportunistic Communications (AOC), Sydney, Australia, June 2014
 - 6th International Workshop on Information Quality and Quality of Service for Pervasive Computing (I2QS), Budapest, Hungary, March 2014
- 2013:
- 21st ACM International Conference on Multimedia (ACM Multimedia), Barcelona, Spain, October 2013
 - 8th ACM MobiCom Workshop on Challenged Networks (CHANTS) Miami, FL, USA, September 2013
 - 2nd Workshop on recent advances in behavior prediction and pro-active pervasive computing (AwareCast), Zurich, Switzerland, September 2013
 - 5th ACM International Workshop on Hot Topics in Planet-Scale Measurement (HotPlanet), Hong Kong, China, August 2013
 - 7th IEEE WoWMoM Workshop on Autonomic and Opportunistic Communications (AOC), Madrid, Spain, June 2013
 - 9th International workshop on Wireless Network Measurements (WiNMee 2013), Tsukuba Science City, Japan, May 2013
 - 2nd EuroSys Workshop on Measurement, Privacy and Mobility (MPM 2013), Prague, Czech Republic, April 2013
 - Workshop on Human Factors in the Safety and Security of Critical Systems, Glasgow, UK, March 2013
- 2012:
- BCS HCI Workshop on Designing Interactive Secure Systems, Birmingham, UK, September 2012
 - 2012 ASE/IEEE International Conference on Social Computing (SocialCom), Amsterdam, The Netherlands, September 2012
 - 7th ACM MobiCom Workshop on Challenged Networks (CHANTS) Istanbul, Turkey, August 2012

- ACM SIGCOMM Workshop on Measurements Up and Down the Stack (WMUST), Helsinki, Finland, August 2012
 - Poster and demo session, ACM SIGCOMM 2012, Helsinki, Finland, August 2012
 - 6th IEEE WoWMoM Workshop on Autonomic and Opportunistic Communications (AOC), San Francisco, CA, USA, June 2012
 - EuroSys Workshop on Measurement, Privacy and Mobility (MPM 2012), Bern, Switzerland, April 2012
- 2011:
- International Conference on Social Computing and Applications (SCA 2011), Sydney, Australia, December 2011
 - 19th ACM International Conference on Multimedia (ACM Multimedia), Scottsdale, AZ, USA, November 2011
 - The First International Conference on Social Eco-Informatics (SOTICS 2011), Barcelona, Spain, October 2011
 - 3rd Annual Extreme Conference on Communication (ExtremeCom 2011), Praia do Tupé, Brazil, September 2011
 - 1st International Workshop on Privacy Management in Mobile Applications (PriMo2011), Copenhagen, Denmark, June 2011
 - 4th International Conference on Trusted Computing (Trust 2011), Pittsburgh, PA, USA, June 2011
 - 2nd International Workshop on Programming Methods for Mobile and Pervasive Systems (PMMPS), San Francisco, CA, USA, June 2011
 - ACM Multimedia Systems 2011, San Francisco, CA, USA, February 2011
- 2010:
- IEEE BioSense 2010, San Francisco, CA, USA, November 2010
 - The 2nd Workshop on Scenarios for Network Evaluation Studies (SCENES 2010), San Francisco, CA, USA, November 2010
 - 18th ACM International Conference on Multimedia (ACM Multimedia), Firenze, Italy, October 2010
 - 9th Annual Workshop on Network and Systems Support for Games (NetGames 2010), Taipei, Taiwan, October 2010
 - 2nd Annual Extreme Workshop on Communication (ExtremeCom 2010), Dharamsala, India, August 2010
 - 3rd International Conference on Trusted Computing (Trust 2010), Berlin, Germany, June 2010
 - ACM Multimedia Systems 2010, Scottsdale, AZ, USA, February 2010
- 2009:
- 8th Annual Workshop on Network and Systems Support for Games (NetGames 2009), Paris, France, November 2009
 - Doctoral Symposium, 8th International Conference on Mobile and Ubiquitous Multimedia (MUM 2009), Cambridge, UK, November 2009
 - 2nd ACM SIGCOMM Workshop on Online Social Networks (WOSN 2009), Barcelona, Spain, August 2009
 - Extreme Workshop on Communication (ExtremeCom 2009), Laponia, Sweden, August 2009
 - ACM International Workshop on Hot Topics of Planet-scale Mobility Measurements (HotPlanet), Kraków, Poland, July 2009
 - 2nd International Conference on Trusted Computing (Trust 2009), Oxford, UK, April 2009
 - Workshop on Scenarios for Network Evaluation Studies (SCENES 2009), Rome, Italy, March 2009
- 2008:
- 16th IEEE International Conference on Network Protocols (ICNP 2008), Orlando, FL, USA, October 2008
 - 14th Annual International Conference on Mobile Computing and Networking (MobiCom 2008), San Francisco, CA, USA, September 2008
 - Poster and demo session, ACM SIGCOMM 2008, Seattle, WA, USA, August 2008
 - 18th International Workshop on Network and Operating Systems Support for Digital Audio and Video (NOSSDAV 2008), Braunschweig, Germany, May 2008
 - 1st ACM SIGMOBILE International Workshop on Mobility Models for Networking Research (MobilityModels '08), Hong Kong, May 2008

- 4th International workshop on Wireless Network Measurements (WiNMee 2008), Berlin, Germany, March 2008
- 2007: • 1st IMC workshop on Internet Measurement for Wireless Networks (IM4Win), San Diego, CA, USA, October 2007
- 2nd ACM International Workshop on Wireless Network Testbeds, Experimental evaluation and CHaracterization (WiNTECH 2007), Montreal, Canada, September 2007
- 6th workshop on Network and System Support for Games (NetGames 2007), Melbourne, Australia, September 2007
- 16th IEEE International Conference on Computer Communications and Networks (ICCCN 2007), Emerging Networking Techniques and Standards Symposium, Honolulu, HI, USA, August 2007
- 4th Annual IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON 2007), San Diego, CA, USA, June 2007
- 2nd IEEE Workshop on advanced experimental activities on wireless networks and systems (EXPONWIRELESS 2007), Helsinki, Finland, June 2007
- GAMEON-ASIA 2007 conference, Shiga, Japan, March 2007
- 2006: • 2nd International Wireless Traffic Measurement and Modeling Workshop (WiTMeMo 2006), Boston, MA, USA, August 2006
- 12th IEEE International Conference on Parallel and Distributed Systems: Wireless, Mobile and Sensor Networks track (ICPADS 2006), Minneapolis, MN, USA, July 2006
- IEEE Workshop on advanced experimental activities on wireless networks and systems (EXPONWIRELESS 2006), Niagara Falls, NY, USA, June 2006
- 16th International Workshop on Network and Operating Systems Support for Digital Audio and Video (NOSSDAV 2006), Newport, RI, USA, May 2006
- 2nd workshop on Multi-hop Ad hoc Networks: from theory to reality (REALMAN 2006), Florence, Italy, May 2006
- 2nd International Workshop on Wireless Network Measurement (WiNMee 2006), Boston, MA, USA, April 2006
- 2005: • 4th workshop on Network and System Support for Games (NetGames 2005), Hawthorne, NY, USA, October 2005
- IEEE workshop on Multi-hop Ad hoc Networks: from theory to reality (REALMAN 2005), Santorini, Greece, July 2005
- International Wireless Traffic Measurement and Modeling Workshop (WiTMeMo 2005), Seattle, WA, USA, June 2005
- 2004: • 1st Australian Workshop on Network Support for Interactive Multimedia and Games, Bondi Beach, Australia, December 2004
- UbiComp 2004 Workshop on Location-Aware Computing, Nottingham, UK, September 2004
- ACM SIGCOMM 2004 NetGames workshop on Network and System Support for Games, Portland, OR, USA, August 2004
- ACM SIGCHI 2004 International Conference on Advances in Computer Entertainment Technology, Singapore, June 2004
- 2003: • ACM SIGCOMM 2003 workshop on Revisiting IP Quality of Service, Karlsruhe, Germany, August 2003
- 2002: • 1st workshop on Network and System Support for Games (NetGames 2002), Braunschweig, Germany, June 2002

Event publicity and organisation

- Organiser, Summer School on Experimental Methodology in Computational Science Research, St Andrews, UK, August 2014
- Workshop co-chair, ACM MobiSys 2014, Bretton Woods, NH, USA, June 2014
- Workshop organiser, SICSA Cybersecurity Workshop, Edinburgh, UK, May 2012
- Workshop organiser, EPSRC Workshop on Social Networks and Communications, London, UK, February 2012
- Workshop organiser, ACM SIGCOMM Education Workshop, Toronto, Canada, August 2011

- Workshop organiser, BCS HCI workshop on Health, Wealth and Identity Theft, Newcastle, UK, July 2011
- Publicity co-chair, 6th Annual International Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services (MobiQuitous 2009), Toronto, Canada, June 2009
- Publicity co-chair, 19th International Workshop on Network and Operating Systems Support for Digital Audio and Video (NOSSDAV 2009), Williamsburg, VA, USA, June 2009
- Web Chair, ACM SIGCOMM 2008, Seattle, WA, USA, August 2008
- Publicity co-chair, 18th International Workshop on Network and Operating Systems Support for Digital Audio and Video (NOSSDAV 2008), Braunschweig, Germany, May 2008
- Publicity chair, 2nd International Conference on Wireless Internet (WICON 2006), Boston, MA, USA, August 2006
- Publicity chair, ACM SIGCOMM 2003 workshop on Revisiting IP Quality of Service, Karlsruhe, Germany, August 2003
- Local organisation, 3rd International Workshop on Networked Group Communication (NGC 2001), London, UK, November 2001

Invited talks and panels

- 06/2017 • *Governing the Automated Governors*, BSI Standards Matter Conference, Edinburgh
- 07/2015 • *Reliable, reproducible and responsible data collection from online social networks*, Estonian Cyber Security Summer School, Laulasmaa, Estonia
- 05/2015 • *Reliable, reproducible and responsible data collection from online social networks*, Experimental Design and Big Data Workshop, University of Warwick
- 11/2014 • *Challenges in reproducibility in computer systems research*, University of Birmingham
- 11/2014 • *Challenges in sharing private data*, Telefonica Data Transparency Workshop, Barcelona
- 05/2014 • *I'm the repro man: A rant and some incremental improvements on reproducibility in systems research*, University of Cambridge
- 03/2014 • *Challenges in running the CRAWDAD wireless network data archive*, ARMA Good Practice Exchange: Research Data workshop, Edinburgh
- 02/2014 • *Simulating privacy conceptions for opportunistic network research*, Queen Mary University of London
- 02/2014 • *Human Systems*, EPSRC networking research workshop, London
- 09/2013 • *Simulating privacy conceptions for opportunistic network research*, University of Nottingham
- 01/2013 • *Towards reliable and responsible social network research*, Abertay University
- 11/2012 • *Towards reliable and responsible social network research*, Glasgow Caledonian University
- 08/2012 • *CRAWDAD: a wireless network data archive for computer scientists and geoinformaticists*, Centre for Geoinformatics, University of St Andrews
- 03/2012 • *Facebook or Fakebook? When, why and how to collect data from social network sites*, University of Stirling
- 02/2012 • *Predicting location-sharing privacy preferences in social network applications*, SCONE meeting, St Andrews
- 06/2011 • *Challenges for opportunistic network research: data, data, data*, Keynote speech, The Fifth IEEE WoWMoM Workshop on Autonomic and Opportunistic Communications, Lucca, Italy
- 10/2010 • *Mobile experience sampling*, Primma Mobile Privacy Workshop, Imperial College London
- 06/2009 • *Planet-scale measurement experiments*, INRIA Saclay, Paris
- 06/2009 • *Large-scale data collection*, Panel discussion, HotPlanet workshop, Kraków, Poland
- 10/2008 • *Can I be your disruption-tolerant friend?*, University of Cambridge Computer Laboratory
- 08/2007 • *Wireless network measurement: why and how to do it*, Nanyang Technological University, Singapore
- 08/2007 • *Wireless network measurement: why and how to do it*, National University of Singapore
- 07/2007 • *Network research at St Andrews*, Center for Mobile Computing, Dartmouth College
- 07/2007 • *St Andrews data monitoring archive*, Multi-Service Networks Workshop, Abingdon
- 07/2007 • *CRAWDAD: data archiving and tool support for the mobile networking research community*, Thomson Labs, Paris
- 04/2007 • *Challenges in measuring wireless networks*, University of Cambridge Computer Laboratory
- 04/2007 • *Monitoring wireless networks: experiences and challenges*, UKERNA Networkshop 35
- 12/2006 • *Gathering WLAN data on a US campus*, Programmable Networks 2006 workshop, Cambridge
- 04/2006 • *Smarter wireless measurement*, Intel Research, Portland, OR, USA

- 09/2005 • *Measuring a campus-wide wireless network*, Networks Research Group Seminar, Department of Computer Science, University College London
- 10/2004 • *Mobile Applications on a Campus-Wide WLAN*, 19th Annual IEEE Computer Communications Workshop, Bonita Beach, FL, USA
- 05/2004 • *Voice, Video and Viruses on a Campus-wide Wireless Network*, Institute for Security Technology Studies, Dartmouth College
- 04/2004 • *Wireless networking at Dartmouth*, CS78 Computer Networks, Dartmouth College
- 05/2003 • *Multiplayer Games: What is the Research Agenda?*, Panel discussion, 2nd Workshop on Network and System Support for Games, Redwood City, CA, USA
- 02/2002 • *Networked Games*, M.Sc Interactive Multimedia Systems, Department of Electronic and Electrical Engineering, University College London
- 02/2002 • *Paying for Playing*, Hewlett Packard Labs, Bristol, UK
- 02/2001 • *Paying for Playing*, M.Sc DCNDS, Department of Computer Science, University College London

University service — St Andrews

- University Research Data Advisory Group (2017–)
- School Athena SWAN Committee (2017–; 2014–2015)
- School Ethics Committee: Convener (2017–; 2008–2010), Member (2007–2008)
- School Senior Management Committee (2014–2016)
- University Digital Advisory Board (2014–)
- University Qualifications Group (2014–2016)
- University Web Advisory Committee (2013–2014)
- School Admissions Officer (2010–2016)
- School Equality & Diversity Committee (2016–)
- School Publicity and Recruitment Committee: Convener (2008–2010, 2012–2016)
- School Second-level Subhonours Coordinator (2007–2008)

NB: this is an abbreviated CV. Please contact me for a fuller version.

Last updated: June 28, 2017