

Yuchen Zhao

Research Associate in Computer Science

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Education

- 2013–2017 **Ph.D., Computer Science**, University of St Andrews, St Andrews, UK.
2011–2013 **M.Sc., Information Security**, Wuhan University, Wuhan, China.
2007–2011 **B.Eng., Information Security**, Huazhong University of Science and Technology, Wuhan, China.

Appointments

- 10/2019– **Research Associate**, Dyson School of Design Engineering, Imperial College London, London, UK.
07/2018– **Research Fellow**, School of Electronics and Computer Science, University of Southampton, Southampton, UK.
10/2019
07/2017– **Research Fellow**, Cyber Security Centre, De Montfort University, Leicester, UK.
06/2018

Publications

- [1] Y. Zhao, H. Haddadi, S. Skillman, S. Enshaeifar, and P. Barnaghi. Privacy-preserving Activity and Health Monitoring on Databox. In *Proceedings of the 3rd International Workshop on Edge Systems, Analytics, and Networking*, Heraklion, Greece, Apr. 2020. Online at <https://bit.ly/2YeWiIG>.
- [2] Y. Zhao and I. Wagner. Using Metrics Suites to Improve the Measurement of Privacy in Graphs. *IEEE Transactions on Dependable and Secure Computing*, pages 1–1, 2020. Online at <https://bit.ly/3cZLNwY>.
- [3] Y. Zhao, T. Blount, L. Koesten, and E. Simperl. Structured and Uncertainty-Aware Data Storytelling. In *CHI '19 Workshop on HCI for Accurate, Impartial and Transparent Journalism: Challenges and Solutions*, Glasgow, UK, May 2019. Online at <https://bit.ly/3bSkuVh>.
- [4] Y. Zhao and I. Wagner. POSTER: Evaluating Privacy Metrics for Graph Anonymization and De-anonymization. In *Proceedings of the 2018 ACM Asia Conference on Computer and Communications Security (ASIA CCS '18)*, Incheon, Republic of Korea, June 2018. <https://doi.org/10.1145/3196494.3201586>.
- [5] Y. Zhao and I. Wagner. On the Strength of Privacy Metrics for Vehicular Communication. *IEEE Transactions on Mobile Computing*, 18(2):390 – 403, Feb. 2019. <https://doi.org/10.1109/TMC.2018.2830359>.
- [6] Y. Zhao. *Recommending Privacy Preferences in Location-Sharing Services*. PhD thesis, School of Computer Science, University of St Andrews, June 2017. Online at <http://hdl.handle.net/10023/11055>.
- [7] Y. Zhao, J. Ye, and T. Henderson. A Robust Reputation-based Location-privacy Recommender System Using Opportunistic Networks. In *Proceedings of the 8th EAI International Conference on Mobile Computing, Applications and Services (MobiCASE '16, acceptance rate = 38%)*, Cambridge, UK, Dec. 2016. <https://doi.org/10.4108/eai.30-11-2016.2267031>.
- [8] Y. Zhao. Usable Privacy in Location-Sharing Services. In *Companion Publications of the 21st International Conference on Intelligent User Interface (IUI '16 Companion)*, pages 110 – 113, Sonoma, CA, USA, Mar. 2016. <https://doi.org/10.1145/2876456.2876458>.
- [9] Y. Zhao, J. Ye, and T. Henderson. The Effect of Privacy Concerns on Privacy Recommenders. In *Proceedings of the 21st International Conference on Intelligent User Interfaces (IUI '16, acceptance rate = 25%)*, pages 218 – 227, Sonoma, CA, USA, Mar. 2016. <https://doi.org/10.1145/2856767.2856771>.

- [10] 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 '14, acceptance rate = 19%)*, pages 120–129, London, UK, Dec. 2014. <https://doi.org/10.4108/icst.mobiquitous.2014.258017>.
- [11] Y. Zhao, J. Ye, and T. Henderson. POSTER: Recommending Location Privacy Preferences in Ubiquitous Computing. In *Proceedings of the 7th ACM Conference on Security and Privacy in Wireless and Mobile Networks (WiSec '14)*, Oxford, UK, July 2014.

Funding

- 2013–2017 **600th Anniversary Scholarship (award rate = 7/80)**, *University of St Andrews*.
- 2016 **IUI 2016 Student Travel Grant**.

Talks

- 2018 **“Human Data Interaction”**, *WAIS Seminar*, Southampton.
- 2017 **“A Robust Reputation-based Location-privacy Recommender System using Opportunistic Networks”**, *The Scottish Networking Event (SCONE)*, Glasgow.
- 2016 **“A Robust Reputation-based Location-privacy Recommender System using Opportunistic Networks”**, *The 8th EAI International Conference on Mobile Computing, Applications and Services*, Cambridge.
- 2016 **“Usable Privacy in Location-Sharing Services”**, *The Student Consortium of the 21st International Conference on Intelligent User Interfaces*, Sonoma.
- 2016 **“The Effect of Privacy Concerns on Privacy Recommenders”**, *The 21st International Conference on Intelligent User Interfaces*, Sonoma.
- 2014 **“Privacy-aware Location-privacy Preference Recommendations”**, *The 11th International Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services*, London.
- 2014 **“Privacy-aware Location-privacy Preference Recommendations”**, *The Scottish Networking Event (SCONE)*, Edinburgh.

Service

Technical programme committees

- 2020 **Program committee, The 14th ACM Conference on Recommender Systems (RecSys 2020)**, 22-26 September, 2020, Online, Worldwide.
- 2019 **Program committee, Demo & LBR of the 27th ACM Conference on User Modelling, Adaption and Personalization (UMAP 2019)**, 9-12 June, 2019, Larnaca, Cyprus.
Program committee, The 27th ACM Conference on User Modelling, Adaption and Personalization (UMAP 2019), 9-12 June, 2019, Larnaca, Cyprus.
- 2018 **Poster committee, The 16th ACM International Conference on Mobile Systems, Applications, and Services (MobiSys 2018)**, 10-15 June, 2018, Munich, Germany.

Organising Committee

- 2020 **Local arrangements co-chairs, The 26th Annual International Conference on Mobile Computing and Networks (MobiCom 2020)**, 21-25 September, 2020, London, United Kingdom.

Reviewer

- 2020 **IEEE Transactions on Big Data.**
Computers & Security.
- 2018 **Computer Communications.**
Journal of Information Security and Applications.
- 2016 **The 13th International Conference on Wirtschaftsinformatik**, February 12-15, 2017, St. Gallen, Switzerland.
Policy & Internet.

- 2015 **The 12th IEEE International Conference on Ubiquitous Intelligence and Computing (UIC 2015)**, *August 10-14, 2015*, Beijing, China.
The 7th EAI International Conference on Mobile Computing, Applications and Services (MobiCASE 2015), *November 12-13, 2015*, Berlin, Germany.
[Student volunteer](#)
- 2016 **The 8th EAI International Conference on Mobile Computing, Applications and Services (MobiCASE 2016)**, *Cambridge*, UK.
The 21st International Conference on Intelligent User Interface (IUI 2016), *Sonoma, CA*, USA.

Skills

Programming, *Java (Weka, Lenskit, ONE, Android), Python (Django, NumPy, Matplotlib), C (Android), R (Lavaan)*.

Word processing, *L^AT_EX*.

Teaching

- 2018–2019 **Tutor**, COMP6234 (Data Visualisation).
Southampton
- 2016–2017 **Demonstrator**, CS1002 (Object-Oriented Programming).
St Andrews **Demonstrator**, CS2001 (Foundations of Computation).
Demonstrator, CS2003 (The Internet and the Web: Concepts and Programming).
- 2015–2016 **Tutor**, CS1002 (Object-Oriented Programming).
St Andrews **Tutor**, CS1006 (Programming Projects).
Demonstrator, CS1002 (Object-Oriented Programming).
Demonstrator, CS2001 (Foundations of Computation).
Demonstrator, CS2003 (The Internet and the Web: Concepts and Programming).
- 2014–2015 **Tutor**, CS1006 (Programming Projects).
St Andrews **Demonstrator**, CS1002 (Object-Oriented Programming).
Demonstrator, CS1003 (Programming with Data).
Demonstrator, CS1006 (Programming Projects).
Demonstrator, CS2003 (The Internet and the Web: Concepts and Programming).