

# Yuchen Zhao

Research Associate in Computer Science

Dyson School of Design Engineering  
Imperial College London  
London, SW7 1AL, UK  
✉ [yuchen.zhao19@imperial.ac.uk](mailto:yuchen.zhao19@imperial.ac.uk)  
📁 [yuchenzhao.github.io](https://github.com/yuchenzhao)  
🌐 [yuchenzhao](https://yuchenzhao.github.io)  
📄 [yuchenzhao](#)

## 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– **Research Fellow**, Cyber Security Centre, De Montfort University, Leicester, UK.
- 07/2017– **Research Fellow**, Cyber Security Centre, De Montfort University, Leicester, UK.
- 06/2018

## Publications

- [1] I. Wagner and Y. Zhao. Using Metrics Suites to Improve the Measurement of Privacy in Graphs. *arXiv preprint arXiv:1905.13264*, 2019. Online at <https://arxiv.org/abs/1905.13264>.
- [2] 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/2Wdah0S>.
- [3] 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>.
- [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. *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>.
- [6] 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>.
- [7] 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>.
- [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. 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>.

- [10] 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.

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## Funding

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

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## 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.

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## Service

### Technical programme committees

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

### Reviewer

- 2020 **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*.

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## Skills

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

**Word processing**,  $\LaTeX$ .

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## 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).