

Tianqing ZHU

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Introduction

I am a Professor, PhD supervisor and Vice Dean at the Faculty of Data Science at City University of Macau, Macao SAR, China. I earned my BEng and MEng degrees from Wuhan University in 2000 and 2004, respectively, and my PhD in Computer Science from Deakin University in Australia in 2014. My research interests lie in the areas of cybersecurity of data analysis, privacy preservation, and security in artificial intelligence.

Research Impact

I have extensive experience teaching and researching in the areas of cybersecurity, data analytics, and security in artificial intelligence. My research work has been recognized through grants from eight Australian National Funding (ARC) and two national funding in China (NSFC). I was selected as Top 2% Scientists Worldwide 2023 by Stanford University. When I was in Australia, I served as a College of Expert of Australian Research Council from 2021-2023.

I have built a core research team comprising 10 assistant professors, 10 PhD students, two postdoc, and several top overseas collaborative researchers. This team has achieved significant academic impact, publishing on top conferences such as USENIX, NDSS and IJCAI, and a series of survey papers on AI privacy and security in top venues such as ACM Computing Surveys and IEEE Transactions on Knowledge and Data Engineering. We also regularly publish in other leading journals, including TDSC and TIFS for cybersecurity and TKDE and TNNLS for data engineering.

Professional Experience

2024-present **Professor**, *School of Data Science*, City University of Macao, China.

2020-2023 **Professor**, *School of Computer Science*, China University of Geosciences (Wuhan), China.

2020 - 2024 **Associate Professor**, *School of Computer Science*, University of Technology Sydney, Australia.

2018 - 2020 **Senior Lecturer**, *School of Computer Science*, University of Technology Sydney, Australia.

2018-2018.6 **Lecturer**, *School of Information Technology*, Deakin University, Australia.

2014 - 2017 **Teaching Scholar**, *School of Information Technology*, Deakin University, Australia.

2004 - 2011 **Lecturer**, *School of Information and Computer Science*, Wuhan Polytechnic University, China.

2000 - 2002 **Research Assistant**, *Central China Electronic Power International Economic & Trade Co. Ltd*, China.

Education

- 2011 - 2014 **School of Information Technology, PhD**, *Deakin University*, Australia.
- PhD Topic : Differential Privacy and Its Application
 - Research area : Social Network, Privacy Preserving, Data Mining
- 2002 - 2004 **Master of Automatic Engineering**, *Wuhan University*, China.
- Research area : Network Security, Data Mining
- 1996 - 2000 **Bachelor of Engineering**, *Wuhan University (previously Wuhan University of Hydraulic and Electrical Engineering)*, China.

Associate Editor Experiences

- 2023 - present **Associate Editor**, *Computer Standard and Interfaces*, Springer.
- 2020-present **Associate Editor**, *IEEE Transactions on Sustainable Computing*, IEEE.
- 2020-present **Associate Editor**, *Journal of Ambient Intelligence and Humanized Computing*, Springer.
- 2018-present **Associate Editor**, *International Journal of Computers, Applications*, (Taylor & Francis).

Research Grants and Projects

- 2024 - 2027 **ARC Discovery Grant**, *1st Chief Investigator*, University of Technology Sydney, Australia.
- Project Title : Balance and reinforcement : privacy and fairness in high intelligence models
 - Funding : 453,000 AUD
- 2023 - 2026 **ARC Linkage Grant**, *1st Chief Investigator*, University of Technology Sydney, Australia.
- Project Title : Improved Security and Privacy for Online Platform
 - Funding : 830,000 AUD
- 2023 - 2026 **ARC Discovery Grant**, *1st Chief Investigator*, University of Technology Sydney, Australia.
- Project Title : Deep Learning Attacks and Active Defences : A Cybersecurity Perspective
 - Funding : 482,610 AUD
- 2023 - 2026 **ARC Linkage Grant**, *2nd CI*, University of Technology Sydney, Australia.
- Project Title : Secure and Resistant Blockchain for Financial and Business Applications
 - Funding : 492,209 AUD

- 2020 - 2023 **ARC Discovery Grant**, *1st CI*, University of Technology Sydney, Australia.
- Project Title : GDPR modelling in cross-domain social networks
 - Funding : 410,000 AUD
- 2019 - 2022 **ARC Linkage Grant**, *1st CI*, with Belmont Computer Centre Pty.Ltd, Australia.
- Project Title : Privacy preservation for personalised smart device
 - Funding : 470,000 AUD
- 2019 - 2022 **ARC Discovery Grant**, *2nd CI*, University of Technology Sydney, Australia.
- Project Title : Enhancing privacy preserving in dynamic cyberspace
 - Funding : 314,000 AUD
- 2017 - 2020 **ARC Linage Grant**, *2nd CI*, Australia Education Management Group, Australia.
- Project Title : A provable privacy preserving data sharing in cloud environment
 - Funding : 540,000 AUD
- 2017 - 2018 **Industry Grant**, *1st CI*, Deakin University and Australia Education Management Group, Australia.
- Project Title : Student's career analysis and recommendation based on a machine learning model
 - Funding : 30,000 AUD
- 2017 - 2018 **Industry Grant**, *1st CI*, Deakin University and Australia Education Management Group, Australia.
- Project Title : Analysis of big data on education
 - Funding : 20,000 AUD
- 2017 - 2018 **Industry Grant**, *1st CI*, Deakin University and Australia Education Management Group, Australia.
- Project Title : Visualisation of statistics of big data on education
 - Funding : 20,000 AUD
- 2016 - 2017 **Industry Grant**, *1st CI*, Deakin University and Australia Education Management Group, Australia.
- Project Title : Developing a Secure and Privacy-Preserving App for the Cloud Campus System
 - Funding : 50,000 AUD

Publications

My DBLP <https://dblp.org/pid/19/8310.html>.

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