

EDUCATION

School of Computer Science, University of Sydney

Sydney, Australia

Ph.D., Computer Science

2023 - 2026 (*expected*)

- Advisors: Chang Xu & Daochang Liu
- Research area: Uncertainty Calibration, Machine Learning

School of Computer Science, University of Sydney

Sydney, Australia

M.Phil., Computer Science

2021 - 2023

- Advisors: Chang Xu & Lijun chang
- Research area: Uncertainty Calibration, Neural Architecture Search

School of Computer Science, University of Sydney

Sydney, Australia

M.E., Data Science

2020 - 2021

Huazhong University of Science and Technology

Wuhan, China

B.E., Communication Engineering

2013 - 2017

- Received Science and Technology Scholarship

PUBLICATIONS

1. Linwei Tao, Minjing Dong, Chang Xu. Feature Clipping for Uncertainty Calibration. *AAAI Conference on Artificial Intelligence, AAAI 2025*.
2. Lei Pan, Wuyang Luan, Yuan Zheng, Junhui Li, Linwei Tao, Chang Xu. GraphFusion: Integrating Multi-Level Semantic Information with Graph Computing for Enhanced 3D Instance Segmentation. *Neurocomputing*, 2024.
3. Linwei Tao, Younan Zhu, Haolan Guo, Minjing Dong, Chang Xu. A Benchmark Study on Calibration. *International Conference on Learning Representations, ICLR 2024*.
4. Linwei Tao, Minjing Dong, Chang Xu. Dual Focal Loss for Calibration. *International Conference on Machine Learning, ICML 2023*.
5. Linwei Tao, Minjing Dong, Daochang Liu, Changming Sun, Chang Xu. Calibrating a Deep Neural Network with Its Predecessors. *International Joint Conference on Artificial Intelligence, IJCAI 2023*.

PREPRINTS

1. Linwei Tao, Haolan Guo, Minjing Dong, Chang Xu. Consistency Calibration: Improving Uncertainty Calibration via Consistency among Perturbed Neighbors.
2. Jinxu Lin, Linwei Tao, Minjing Dong, Chang Xu. Diffusion Attribution Score: Evaluating Training Data Influence in Diffusion Model.
3. Yunke Wang, Linwei Tao, Bo Du, Yutian Lin, Chang Xu. Visual Imitation Learning with Calibrated Contrastive Representation.

EXPERIENCES

Teaching Assistant | University of Sydney, Sydney

2022 - now

- COMP5329 Deep Learning Spring 2022, 2023, 2024, 2025
- HTIN5005 Applied Healthcare Data Science Fall 2022, 2023
- OCMP5329 Deep Learning (Online) Fall 2024
- BUSS6002 Data Science in Business Spring 2024, Fall 2024
- QBUS5010 Intro to Dashboarding and Data Visualisation Fall 2024

Construction Supervisor | Songjiang Construction Union, Shanghai

2017.07 - 2019.10

IOS Developer Intern | Trip.com, Shanghai

2015.06 - 2015.09

Frontend Developer Intern | Sunallies, Shanghai

2014.06 - 2014.09

AWARDS AND GRANTS	• Google Cloud Research Credits Award (\$2340 AUD), Google	2024.05
	• International Tuition Fee Scholarship, USYD	2023.06
	• Faculty of Engineering Research Support Scholarship, USYD	2023.05
	• Excellent Student Cadre, HUST,	2015.09
	• Science and Technology Scholarship, HUST	2014.06
TALKS	• “ITCD: Image to Text Translation for Classification by Diffusion Models”, at Efficiency, Security, and Generalization of Multimedia Foundation Models Workshop @ ACM Multimedia 2024	2024.10
	• “Dual Focal Loss for Calibration”, at AI-Time	2023.05
	• “Calibrating a Deep Neural Network with Its Predecessors”, at University of Sydney, Deep Learning class	2023.02
ACADEMIC SERVICES	Conference Reviewer: <i>ICML, NeuIPS, AAAI, ICLR, CVPR, ICML, IJCAI, ACMMM, AISTATS</i>	
	Journal Reviewer: <i>T-MM, TMLR, DAMI, TPAMI, Machine Learning</i>	