
EDUCATION	School of Computer Science, University of Sydney <i>Ph.D., Computer Science</i>	Sydney, Australia 2023 - 2026 (<i>expected</i>)
	<ul style="list-style-type: none">• Advisors: Chang Xu & Daochang Liu• Research area: Uncertainty Calibration, Machine Learning	
	School of Computer Science, University of Sydney <i>M.Phil., Computer Science</i>	Sydney, Australia 2021 - 2023
	<ul style="list-style-type: none">• Advisors: Chang Xu & Lijun chang• Research area: Uncertainty Calibration, Neural Architecture Search	
	School of Computer Science, University of Sydney <i>M.E., Data Science</i>	Sydney, Australia 2020 - 2021
	Huazhong University of Science and Technology <i>B.E., Communication Engineering</i>	Wuhan, China 2013 - 2017
	<ul style="list-style-type: none">• Received Science and Technology Scholarship	
EXPERIENCES	Research Intern Apple Research, Cambridge, UK	2026.05 - 2026.10
	Research Scientist Intern Google, Sydney	2025.11 - 2026.02
	Teaching Assistant University of Sydney, Sydney	2022 - now
	<ul style="list-style-type: none">• COMP5329 Deep Learning• COMP5318 Machine Learning and Data Mining• HTIN5005 Applied Healthcare Data Science• OCMP5329 Deep Learning (Online)• BUSS6002 Data Science in Business• QBUS5010 Intro to Dashboarding and Data Visualisation	Spring 2022, 2023, 2024, 2025 Fall 2025 Fall 2022, 2023 Fall 2024, 2025 Spring 2024, 2025 Fall 2024, 2025
	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	<ul style="list-style-type: none">• Modal for Academics Compute Grant (\$2,000 USD), Modal• Lambda Research Grant (\$2,000 USD), Lambda• Apple Scholars in AI/ML PhD Fellowship (20 selected worldwide, first Australian recipient), Apple• Cohere Labs Catalyst Grant (\$1,000 USD), Cohere Labs• SUPRA Social Impact Grant (\$1,000 AUD), USYD• FFT Student Survey Award for Outstanding Achievement in BUSS6002, USYD Business School• Faculty of Engineering HDR Grant (\$1,000 AUD), USYD• AAAI 2026 Student Program Committee (3 selected worldwide), AAAI• Google Cloud Research Credits Award (\$2340 AUD), Google• International Tuition Fee Scholarship, USYD• Faculty of Engineering Research Support Scholarship, USYD• Excellent Student Cadre, HUST,• Science and Technology Scholarship, HUST	2026.05 2026.05 2026.04 2026.04 2026.04 2025.12 2025.06 2025.06 2024.05 2023.06 2023.05 2015.09 2014.06

ACADEMIC
SERVICES

Conference Reviewer: *ICML, NeuIPS, ICLR, CVPR, ICCV, AAAI, IJCAI, ACMMM, AISTATS*

Journal Reviewer: *T-MM, TMLR, DAMI, TPAMI, Machine Learning*

PUBLICATIONS

1. Haolan Guo, **Linwei Tao**, Haoyang Luo, Minjing Dong, Chang Xu. Sample Margin-Aware Recalibration of Temperature Scaling. *International Conference on Machine Learning, ICML 2026*.
2. Xiaoyang Li, **Linwei Tao**, Haohui Lu, Minjing Dong, Junbin Gao, Chang Xu. Calibrating Graph Neural Networks with Wavelet-Aware Temperature Scaling. *International Conference on Learning Representations, ICLR 2026*.
3. Lei Pan, Zhipeng Lu, Yuan Zheng, Chongyao Yan, Haitao Wen, **Linwei Tao**, Chang Xu. Task-adaptive continual learning of vision language models via prototype routing and prompt. *Neurocomputing, 2026*.
4. Haoyang Luo, **Linwei Tao**, Minjing Dong, Chang Xu. Beyond One-Hot Labels: Semantic Mixing for Model Calibration. *International Conference on Machine Learning, ICML 2025*.
5. Jinxu Lin, **Linwei Tao**, Minjing Dong, Chang Xu. Uncertainty Weighted Gradients for Model Calibration. *The IEEE / CVF Computer Vision and Pattern Recognition Conference, CVPR 2025*.
6. Jinxu Lin, **Linwei Tao**, Minjing Dong, Chang Xu. Diffusion Attribution Score: Evaluating Training Data Influence in Diffusion Model. *International Conference on Learning Representations, ICLR 2025*. (Spotlight, 5.1% of 11,500 submissions)
7. **Linwei Tao**, Minjing Dong, Chang Xu. Feature Clipping for Uncertainty Calibration. *AAAI Conference on Artificial Intelligence, AAAI 2025*.
8. 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*.
9. **Linwei Tao**, Younan Zhu, Haolan Guo, Minjing Dong, Chang Xu. A Benchmark Study on Calibration. *International Conference on Learning Representations, ICLR 2024*.
10. **Linwei Tao**, Minjing Dong, Chang Xu. Dual Focal Loss for Calibration. *International Conference on Machine Learning, ICML 2023*.
11. **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*.
12. **Linwei Tao**, Yi-Fan Yeh, Minjing Dong, Tao Huang, Philip Torr, Chang Xu. Revisiting Uncertainty Estimation and Calibration of Large Language Models. *Conference on Neural Information Processing Systems, NeurIPS 2025 Scaling Environments for Agents (SEA) Workshop*
13. Yingqing Yuan, **Linwei Tao**, Haohui Lu, Matloob Khushi, Imran Razzak, Mark Dras, Jian Yang, Usman Naseem. KG-UQ: Knowledge Graph-Based Uncertainty Quantification for Long Text in Large Language Models. *International World Wide Web Conference, WWW 2025 Workshop on Sustainable AI for the Future Web*

1. **Linwei Tao**, Haoyang Luo, Minjing Dong, Chang Xu. Confidence Calibration under Ambiguous Ground Truth. *arXiv:2603.22879*, 2026.
2. **Linwei Tao**, Yi-Fan Yeh, Bo Kai, Minjing Dong, Tao Huang, Tom A. Lamb, Jialin Yu, Philip H.S. Torr, Chang Xu. Can Large Language Models Express Uncertainty Like Human?
3. Haolan Guo, **Linwei Tao**, Haoyang Luo, Minjing Dong, Chang Xu. Sample Margin-Aware Recalibration of Temperature Scaling
4. **Linwei Tao**, Haolan Guo, Minjing Dong, Chang Xu. Consistency Calibration: Improving Uncertainty Calibration via Consistency among Perturbed Neighbors.
5. Yunke Wang, **Linwei Tao**, Bo Du, Yutian Lin, Chang Xu. Visual Imitation Learning with Calibrated Contrastive Representation.
6. Younan Zhu, **Linwei Tao**, Minjing Dong, Chang Xu. Attention Calibration for Reducing Hallucination in Large Vision-Language Models.