Linwi	EI TAO (Last updated: 1 May, 2025)	(+61) 0413002799 linwei.tao@sydney.edu.au https://www.taolinwei.com
Education	School of Computer Science, University of Sydney Ph.D., Computer Science	Sydney, Australia 2023 - 2026 (expected)

• Research area: Uncertainty Calibration, Machine Learning

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 M.E., Data Science	Sydney, Australia 2020 - 2021
Huazhong University of Science and Technology	Wuhan, China
B.E., Communication Engineering	2013 - 2017

Received Science and Technology Scholarship

- PUBLICATIONS 1. Haoyang Luo, Linwei Tao, Minjing Dong, Chang Xu. Beyond One-Hot Labels: Semantic Mixing for Model Calibration. International Conference on Machine Learning, ICML 2025.
 - 2. 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.
 - 3. 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)
 - 4. Linwei Tao, Minjing Dong, Chang Xu. Feature Clipping for Uncertainty Calibration. AAAI Conference on Artificial Intelligence, AAAI 2025.
 - 5. 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.
 - 6. Linwei Tao, Younan Zhu, Haolan Guo, Minjing Dong, Chang Xu. A Benchmark Study on Calibration. International Conference on Learning Representations, ICLR 2024.
 - 7. Linwei Tao, Minjing Dong, Chang Xu. Dual Focal Loss for Calibration. International Conference on Machine Learning, ICML 2023.
 - 8. 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.
 - 9. 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

Preprints	1. Linwei Tao, Haolan Guo, Minjing Dong, Chang Xu. Consistency Calibration: Improvin Uncertainty Calibration via Consistency among Perturbed Neighbors.			
	 Yunke Wang, Linwei Tao, Bo Du, Yutian Lin, Chang Xu. Visual Imitation Learning with Calibrated Contrastive Representation. Younan Zhu, Linwei Tao, Minjing Dong, Chang Xu. Attention Calibration for Reducing Hallucination in Large Vision-Language Models. 			
Experiences	Teaching Assistant University of Sydney, Sydney• COMP5329 Deep LearningSpring 2022,• HTIN5005 Applied Healthcare Data ScienceOCMP5329 Deep Learning (Online)• BUSS6002 Data Science in BusinessSpring• QBUS5010 Intro to Dashboarding and Data Visualisation	2022 - now 2023, 2024, 2025 Fall 2022, 2023 Fall 2024 g 2024, Fall 2024 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	Google Cloud Research Credits Award (\$2340 AUD), Google	2024.05		
AND	 International Tuition Fee Scholarship, USYD 	2023.06		
Grants	• 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 Mul- timedia 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, Dee Learning class 2023.0			
Academic Services	Conference Reviewer: ICML, NeuIPS, ICLR, CVPR, ICCV, AAAI, IJCAI, ACMMM, AISTATS			
	Journal Reviewer: T-MM, TMLR, DAMI, TPAMI, Machine Learning			