Yimu Wang

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Education and Research Experience

University of Waterloo, Computer Science, Ph.D.May. 2022Grades 96.5/100. Supervised by Prof. Krzysztof Czarnecki. Focusing on Cross-modaClouds Segmentation.	2 - Apr. 2026 (Expected) al Retrieval and Point
Tsinghua University , Research Assistant Focus on multi-modal retrieval and federated learning supervised by Jingjing Liu and Y published on ICLR'23.	Oct. 2021 – Apr. 2022 Yang Liu. The project is
Nanjing University, Computer Science and Technology, M.Sc. Supervised by Prof. Lijun Zhang, in LAMDA Group. Focus on Image Retrieval and (Sep. 2018 - Jun. 2022 Optimization.
Northwestern Polytechnical University, Software Engineering, B.Eng	Sep. 2014 - Jun. 2018
Industry Experience	
1. SONY AI , Research Intern Research on knowledge transfer between foundation models.	Feb. 2024 – Nov
2. Borealis AI (Royal Bank of Canada), Research Intern Research on Temporal Point Process (prediction on next transaction). Paper submitted	Sep. 2023 – Jan. 202 to ICML'24.
3. Alibaba, Turing Lab, Research Intern Focus on multi-modal anomaly detection. Collect multi-modal user data to analyze the parchitecture for detection.	May. $2021 - $ Sep. 202 attern and design a nove
4. Derivatives-China , Quant Research Intern Research on powerful deep learning systems for A-Shares.	Jan. 2021 – Apr. 202
5. NetEase, IE, AILab , AI Research Intern Research on the 3D face reconstruction from a single RGB image.	Aug. 2020 – Sep. 202
6. Tencent, IEG, Lightspeed & Quantum Studios Group , Research Intern Research on abnormal text and image detection. We designed a novel framework for d image. The model has been employed in the LOL mobile game.	Jun. 2020 – Jul. 202 letecting illegal text and
 Megvii (Face++), Research Intern Participate in several research projects (GAN, Domain Adaptation, Fine-grained Image search. Projects have been published at international conferences, e.g., WACV. 	Jan. 2018 – Nov. 201 e Search) at Nanjing Re
Selected Papers (CVPR, EMNLP, NeurIPS, ICLR, AAAI, IJCAI, ACM MM,	WACV)
Cross-modal Retrieval (EMNLP, ICLR, ACM MM, IJCAI)	
 Balance Act: Mitigating Hubness in Cross-Modal Retrieval with Query and Yimu Wang ⊠, Xiangru Jian, Bo Xue. <u>EMNLP</u>'23, Oral. 	Gallery Banks
 Video-Text Retrieval by Supervised Multi-Space Multi-Grained Alignment Yimu Wang, Peng Shi. <u>Findings of EMNLP</u>'23. 	
 InvGC: Robust Cross-Modal Retrieval by Inverse Graph Convolution Xiangru Jian, Yimu Wang ⊠. Findings of EMNLP'23. 	

- Multimodal Federated Learning via Contrastive Representation Ensemble Qiying Yu, Yimu Wang, Ke Xu, Yang Liu, Jingjing Liu International Conference on Learning Representations (<u>ICLR</u>) 2023
- 5. Deep Unified Cross-Modality Hashing by Pairwise Data Alignment Yimu Wang, Bo Xue, Quan Cheng, Yuhui Chen, and Lijun Zhang ⊠ International Joint Conference on Artificial Intelligence (IJCAI) 2021
- 6. Searching Privately by Imperceptible Lying: A Novel Private Hashing Method with Differential Privacy

Yimu Wang, Shiyin Lu, and Lijun Zhang \boxtimes ACM International Conference on Multimedia (<u>ACM MM</u>) 2020

Vision (CVPR, WACV)

7. Cooperation or Competition: Avoiding Player Domination for Multi-target Robustness by Adaptive Budgets

Yimu Wang, Dinghuai Zhang, Yihan Wu, Heng Huang, Hongyang Zhang IEEE Conference on Computer Vision and Pattern Recognition (<u>CVPR</u>) 2023, NeurIPS 2022 Workshop

 An Adversarial Domain Adaptation Network for Cross-Domain Fine-Grained Recognition Yimu Wang, Ren-Jie Song, Xiu-Shen Wei, and Lijun Zhang ⊠ IEEE Winter Conference on Applications of Computer Vision (WACV) 2020

Optimization (NeurIPS, AAAI, IJCAI)

- 9. Multiobjective Lipschitz Bandits under Lexicographic Ordering Bo Xue, Ji Cheng, Fei Liu, **Yimu Wang**, Qingfu Zhang AAAI'24
- Lost Domain Generalization Is a Natural Consequence of Lack of Training Domains Yimu Wang, Yihan Wu, Hongyang Zhang AAAI'24
- 11. Efficient Algorithms for Generalized Linear Bandits with Heavy-tailed Rewards Bo Xue, Yimu Wang, Yuanyu Wan, Jinfeng Yi, and Lijun Zhang ⊠ Conference on Neural Information Processing Systems (<u>NeurIPS</u>) 2023
- 12. Nearly Optimal Regret for Stochastic Linear Bandits with Heavy-Tailed Payoffs Bo Xue, Guanghui Wang, Yimu Wang, and Lijun Zhang ⊠ International Joint Conference on Artificial Intelligence (IJCAI) 2020

Selected Honors and Awards

1. AAAI 2024 Travel and Diversity & Inclusion Award	Jan. 2024
2. EMNLP 2023 Diversity and Inclusion Award	Nov. 2023
3. CVPR 2023 Travel Award and Diversity, Equity & Inclusion Award	Jun. 2023
4. QueerInAI Graduate Application Award	Dec. 2021