Mo Zhou

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STATUS Chinese citizen

CURRENT • Johns Hopkins University Baltimore, MD, USA 21218

Dept. Electrical and Computer Engineering, Whiting School of Engineering

Ph.D. Electrical and Electronics Engineering 08/2021 - Current

INTERESTS • Machine Learning, Deep Learning, and Computer Vision

• Object Recognition, and Object Detection

• Deep Metric Learning, and Cross-modal Retrieval (Vision + Language)

• Adversarial Attack, Defense, and Robustness in Deep Learning (AI Security)

• Linux Operating System Development and Administration

EXPERIENCE • Microsoft Corporation, Applied Sciences Group Redmond, WA 98052

Research Intern (Deep Learning) 05/2023 - 08/2023

• Wormpex AI Research LLC
Research Intern (Computer Vision)

Bellevue, WA 98004
05/2022 - 08/2022

• Xi'an Jiaotong University Xi'an, Shaanxi 710049

Institute of Artificial Intelligence and Robotics (IAIR)

Research Assistant (Computer Vision) 07/2020 - 06/2021

EDUCATION • Xidian University Xi'an, Shaanxi, China 710071

M.Eng. Pattern Recognition and Intelligent Systems. July, 2020 09/2017 - 06/2020

Thesis: Coherent Visual-Semantic Embedding for Cross-Modal Retrieval

• Xidian University Xi'an, Shaanxi, China 710126

B.Eng. Electromagnetic Field and Wireless Technology. July, 2017 09/2013 - 07/2017

PUBLICATIONS Google Scholar Profile: scholar.google.com/citations?user=BVIO95UAAAAJ

(Nov. 22 2023) Citations: 1091 H-Index: 8 i10-Index: 7

Other Identifiers: [ORCiD] [Publons] [Semantic Scholar] [Web of Science] [DBLP]

JOURNAL ARTICLES: (0 TPAMI, 1 TMM)

[IEEE Xplore] [J01] Le Wang, Mo Zhou, Zhenxing Niu, Qilin Zhang, Nanning Zheng, "Adaptive Ladder Loss for Learning Coherent Visual-Semantic Embedding," IEEE Transactions on Multimedia

(TMM), 2021. DOI: 10.1109/TMM.2021.3139210.

CONFERENCE PAPERS: (3 CVPR, 2 ICCV, 1 ECCV, 1 NeurIPS, 1 AAAI)

[PDF] [Github] [C01] Yiqun Mei, Pengfei Guo, Mo Zhou, Vishal M. Patel, "Resource-Adaptive Federated Learning with All-In-One Neural Composition," Advances in Neural Information Pro-

cessing Systems (NeurIPS), 2022.

[PDF] [arXiv] [Github]	[C02] Mo Zhou, Vishal M. Patel, "Enhancing Adversarial Robustness for ing," in Proc. IEEE Conf. on Computer Vision and Pattern Re 2022.		
[PDF] [arXiv] [Github]	[C03] Mo Zhou, Le Wang, Zhenxing Niu, Qilin Zhang, Yinghui Xu, Nar Hua, "Practical Order Attack in Deep Ranking," in Proc. IEEE Into Computer Vision (ICCV), 2021.		
[PDF] [arXiv] [Github]	[C04] Liushuai Shi, Le Wang, Chengjiang Long, Sanping Zhou, Mo Zh Gang Hua, "SGCN: Sparse Graph Convolution for Pedestrian Traj In Proc. IEEE Conf. on Computer Vision and Pattern Recognition (iectory Prediction",	
[PDF] [arXiv] [Github]	[C05] Mo Zhou, Zhenxing Niu, Le Wang, Qilin Zhang, Gang Hua, "Ac Attack and Defense," in Proc. European Conf. on Computer Vision	dversarial Ranking	
[PDF] [arXiv] [Github]	[C06] Mo Zhou, Zhenxing Niu, Le Wang, Zhanning Gao, Qilin Zhang, C Loss for Coherent Visual-Semantic Embedding," in Proc. AAAI (Intelligence (AAAI), 2020.	Gang Hua, "Ladder	
[PDF]	[C07] Zhenxing Niu, Mo Zhou, Le Wang, Xinbo Gao, Gang Hua, "Hierand LSTM for Dense Visual-Semantic Embedding," in Proc. IEEE Intercomputer Vision (ICCV), 2017.		
[PDF] [Dataset]	[C08] Zhenxing Niu, Mo Zhou, Le Wang, Xinbo Gao, Gang Hua. "Ordinal Regression with Multiple Output CNN for Age Estimation," in Proc. IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), 2016.		
	PREPRINT / UNDER-REVIEW PAPERS:		
[arXiv]	[X01] Kangfu Mei, Mo Zhou, Vishal M. Patel, "T1: Scaling Diffusion Probabilistic Fields to High-Resolution on Unified Visual Modalities," 2023, Under Review.		
[arXiv] [Github]	[X02] Yu Zeng*, Mo Zhou*, Yuan Xue, Vishal M. Patel, "Securing Deep with Universal Adversarial Signature,", 2023, Under Review.	Generative Models	
	[X03] Mo Zhou, Yiding Yang, Haoxiang Li, Vishal M. Patel, Gang Hua, '2022, Under Review (double-blind).	(object detection),"	
[arXiv]	[X04] Mo Zhou, Vishal M. Patel, "On Trace and Characterization of PGA Attacks," 2022, Under Review.	D-Like Adversarial	
[arXiv] [Github]	[X05] Mo Zhou, Le Wang, Zhenxing Niu, Qilin Zhang, Nanning Zheng, sarial Attack and Defense in Deep Ranking," 2021, Under Review.	Gang Hua, "Adver-	
PATENTS	 [P01] Le Wang, Mo Zhou, Sanping Zhou, Shitao Chen, Jingmin Xin, Nanning Zheng, "A Practical Relative Order Adversarial Attack Method". Chinese Patent No. 202110998691.9. [P02] Zhenxing Niu, Wei Xue, Mo Zhou, Bo Yuan, Xinbo Gao, Gang Hua, "Age estimation method based on multi-output convolution neural network and ordered regression". 		
	Chinese Patent No. 201610273524.7.		
ACTIVITIES	Reviewer for International Conferences		
	o IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)	2020, 2021, 2022,	
	 Annual Conf. on Neural Information Processing Systems (NeurIPS) International Conf. on Computer Vision (ICCV) European Conf. on Computer Vision (ECCV) International Conf. Learning Representations (ICLR) International Conf. of Machine Learning (ICML) AAAI Conf. on Artificial Intelligence (AAAI) 	2023, 2024 2022, 2023 2021, 2023 2020, 2022 2022, 2023, 2024 2023, 2024 2021, 2022	
	Winter Conf. on Applications of Computer Vision (WACV)	2021, 2022, 2023, 2024	
	• Asian Conf. on Computer vision (ACCV)	2018, 2020, 2022	

	Reviewer for International Journals	
	 IEEE Trans. on Pattern Analysis and Machine Intelligence (TPAN IEEE Trans. on Neural Networks and Learning Systems (TNNLS IEEE Trans. on Multimedia (TMM) IEEE Trans. on Dependable and Secure Computing (TDSC) Elsevier Journal of Neural Networks (NeuNet) Elsevier Journal of Neurocomputing (NeuComp) Elsevier Journal of Image and Vision Computing (IMAVIS) Springer Journal: International Journal of Computer Vision (IJCV Springer Journal of Machine Vision and Application (MVA) Springer Journal of Complex & Intelligent Systems (CAIS) 	2022 2023 2022 2022 2021 2023
	o Oxford University Press: The Computer Journal (COMPJ)	2023
	Organizer for International Workshops	
	 4th Workshop on Adversarial Robustness In the Real World (Point of contact) [Website: https://iccv23-arow.github.io/] 	ICCV 2023 Paris, France
	Volunteer in Non-profit Free Software Communities	
	 Official Developer for Debian GNU/Linux [lumin@debian.org] Contributor for Gentoo GNU/Linux Contributor for "Deep Dive: AI" event, Open Source Initiative [Final Procedure] 	06/2019 - 08/2019
Honors	Outstanding Reviewer for ICCV 2021	2021
	 Open Source Promotion Plan (OSPP) with Tsinghua University TUN Project: Integrating Data Science Software (incl. Xgboost, etc.) into (Best Quality Award) 	
	• Google Summer of Code (GSoC) with Debian Project Project: BLAS/LAPACK Ecosystem Enhancement for Debian	2020
	 Google Summer of Code (GSoC) with Gentoo Foundation Project: BLAS and LAPACK Runtime Switching 	2019
	 Xidian University Secondary School Scholarship.⁺ 	2017-2018
	• Interdisciplinary Contest in Modeling (ICM) Meritorious Winner. Advisor: Youlong Yang (Xidian University)	2016
Affliation	Student Member, IEEE	Aug 2021 – Dec 2023
REFERENCES	AVAILABLE UPON REQUEST.	