Mo Zhou

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STATUS Chinese citizen

CURRENT • Johns Hopkins University Baltimore, MD, USA 21218

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

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

• Object Recognition and Object Detection

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

• Linux Operating System Development and Administration

EXPERIENCE Wormpex AI Research LLC Bellevue, WA, USA 98004

Research Intern (Computer Vision)

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

Xi'an, Shaanxi, China 710126 • Xidian University

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

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

> Citations: 874 H-Index: 6 i10-Index: 6

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] [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 Deep Metric Learning," in Proc. IEEE Conf. on Computer Vision and Pattern Recognition (CVPR),

2022.

05/2022 - 08/2022

[PDF] [arXiv] [Github]	[C03] Mo Zhou, Le Wang, Zhenxing Niu, Qilin Zhang, Yinghui Xu, Na: Hua, "Practical Order Attack in Deep Ranking," in Proc. IEEE Int		
[PDF] [arXiv] [Github]	Computer Vision (ICCV), 2021. [C04] Liushuai Shi, Le Wang, Chengjiang Long, Sanping Zhou, Mo Zl Gang Hua, "SGCN: Sparse Graph Convolution for Pedestrian Trag In Proc. IEEE Conf. on Computer Vision and Pattern Recognition (jectory Prediction",	
[PDF] [arXiv] [Github]	[C05] Mo Zhou, Zhenxing Niu, Le Wang, Qilin Zhang, Gang Hua, "A 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, "Hiera LSTM for Dense Visual-Semantic Embedding," in Proc. IEEE Into		
[PDF] [Dataset]	Computer Vision (ICCV), 2017. [C08] Zhenxing Niu, Mo Zhou, Le Wang, Xinbo Gao, Gang Hua. "Ordin Multiple Output CNN for Age Estimation," in Proc. IEEE Conf. of and Pattern Recognition (CVPR), 2016.		
	Preprint / Under-Review Papers:		
	[X01] Yu Zeng, Mo Zhou, Vishal M. Patel, "(about generated image detection marking)", 2023, Under Review (double-blind).	ction through water-	
	[X02] Mo Zhou, Yiding Yang, Haoxiang Li, Vishal M. Patel, Gang H		
[arXiv]	detection under some distribution shifts)," 2022, Under Review (do [X03] Mo Zhou, Vishal M. Patel, "On Trace and Characterization of PG Attacks," 2022, Under Review.		
[arXiv] [Github]	[X04] Mo Zhou, Le Wang, Zhenxing Niu, Qilin Zhang, Nanning Zheng, sarial Attack and Defense in Deep Ranking," 2021, Under Review.	Gang Hua, "Adver-	
PATENTS	 Le Wang, Mo Zhou, Sanping Zhou, Shitao Chen, Jingmin Xin, Nanning Zheng, "A Practical Relative Order Adversarial Attack Method". Chinese Patent No. 202110998691.9. 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, 2023	
	 Annual Conf. on Neural Information Processing Systems (NeurIPS) International Conf. on Computer Vision (ICCV) 	2022 2021	
	• European Conf. on Computer Vision (ECCV)	2020, 2022	
	o International Conf. Learning Representations (ICLR)	2022, 2023	
	 International Conf. of Machine Learning (ICML) AAAI Conf. on Artificial Intelligence (AAAI) 	2023 2021, 2022	
	 Winter Conf. on Applications of Computer Vision (WACV) Asian Conf. on Computer vision (ACCV) 	2021, 2022, 2023 2018, 2020, 2022	
	Reviewer for International Journals		
	• IEEE Trans. on Pattern Analysis and Machine Intelligence (TPAMI)	2021, 2022	
	• IEEE Trans. on Neural Networks and Learning Systems (TNNLS)	2022 2022	
	IEEE Trans. on Dependable and Secure Computing (TDSC)Elsevier Journal of Neural Networks (NeuNet)	2022	

	 Elsevier Journal of Neurocomputing (NeuComp) Springer Journal of Machine Vision and Application (MVA) Springer Journal of Complex & Intelligent Systems (CAIS) 	2021 2020, 2021, 2022 2021, 2022	
	 Volunteer in Non-profit Free Software Communities 		
	• Official Developer for Debian GNU/Linux [lumin@debian.org] • Contributor for Gentoo GNU/Linux	08/2018 – Current 06/2019 – 08/2019	
Honors	Outstanding Reviewer for ICCV 2021	2021	
	• Open Source Promotion Plan (OSPP) with Tsinghua University TUNA Association 2020 Project: <i>Integrating Data Science Software (incl. Xgboost, etc.) into Debian</i> (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.		