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, Shaanxi, China 710049

05/2022 - 08/2022

• Xi'an Jiaotong University 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: 833 H-Index: 6 i10-Index: 5

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.

[PDF] [arXiv] [Github]	B] Mo Zhou, Le Wang, Zhenxing Niu, Qilin Zhang, Yinghui Xu, Nanning Zheng, G Hua, "Practical Order Attack in Deep Ranking," in Proc. IEEE International Conf	
[PDF] [arXiv] [Github]	Computer Vision (ICCV), 2021. [C04] Liushuai Shi, Le Wang, Chengjiang Long, Sanping Zhou, Mo Zh Gang Hua, "SGCN: Sparse Graph Convolution for Pedestrian Traje	ectory Prediction",
[PDF] [arXiv] [Github]	In Proc. IEEE Conf. on Computer Vision and Pattern Recognition (Cos) Mo Zhou, Zhenxing Niu, Le Wang, Qilin Zhang, Gang Hua, "Additional Processing For Proceedings of the Cost	lversarial Ranking
[PDF] [arXiv] [Github]	Attack and Defense," in Proc. European Conf. on Computer Vision ([C06] Mo Zhou, Zhenxing Niu, Le Wang, Zhanning Gao, Qilin Zhang, G Loss for Coherent Visual-Semantic Embedding," in Proc. AAAI (Intelligence (AAAI), 2020.	ang Hua, "Ladder
[PDF]	[C07] Zhenxing Niu, Mo Zhou, Le Wang, Xinbo Gao, Gang Hua, "Hieran LSTM for Dense Visual-Semantic Embedding," in Proc. IEEE Inte Computer Vision (ICCV), 2017.	
[PDF] [Dataset]	[C08] Zhenxing Niu, Mo Zhou, Le Wang, Xinbo Gao, Gang Hua. "Ordin Multiple Output CNN for Age Estimation," in Proc. IEEE Conf. or and Pattern Recognition (CVPR), 2016.	
	REPRINT / UNDER-REVIEW PAPERS:	
	[X01] Mo Zhou, Yiding Yang, Haoxiang Li, Vishal M. Patel, Gang Hua, "2022, Under Review.	(object detection),"
[arXiv]	[X02] Mo Zhou, Vishal M. Patel, "On Trace and Characterization of PGI Attacks," 2022, Under Review.	D-Like Adversarial
[arXiv] [Github]	[X03] Mo Zhou, Le Wang, Zhenxing Niu, Qilin Zhang, Nanning Zheng, Osarial 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	
	 IEEE Conf. on Computer Vision and Pattern Recognition (CVPR) Annual Conf. on Neural Information Processing Systems (NeurIPS) 	2020, 2021, 2022, 2023 2022
	 International Conf. on Computer Vision (ICCV) European Conf. on Computer Vision (ECCV) 	2021 2020, 2022
	 International Conf. Learning Representations (ICLR) 	2022, 2023
	 AAAI Conf. on Artificial Intelligence (AAAI) Winter Conf. on Applications of Computer Vision (WACV) 	2021, 2022 2021, 2022, 2023
	 Willier Colli. on Applications of Computer Vision (WACV) Asian Conf. on Computer vision (ACCV) 	2021, 2022, 2023
	Reviewer for International Journals	
	 IEEE Trans. on Pattern Analysis and Machine Intelligence (TPAMI) IEEE Trans. on Neural Networks and Learning Systems (TNNLS) IEEE Trans. on Dependable and Secure Computing (TDSC) Elsevier Journal of Neural Networks (NeuNet) Elsevier Journal of Neurocomputing (NeuComp) Springer Journal of Machine Vision and Application (MVA) Springer Journal of Complex & Intelligent Systems (CAIS) 	2021, 2022 2022 2022 2022 2021 2020, 2021, 2022 2021, 2022

• Volunteer in Non-profit Free Software Communities o Official Developer for Debian 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: Integrating Data Science Software (incl. Xgboost, etc.) into Debian (Best Quality Award) • Google Summer of Code (GSoC) with Debian Project 2020 Project: BLAS/LAPACK Ecosystem Enhancement for Debian • Google Summer of Code (GSoC) with Gentoo Foundation 2019 Project: BLAS and LAPACK Runtime Switching • Xidian University Secondary School Scholarship. + 2017-2018 • Interdisciplinary Contest in Modeling (ICM) 2016 Meritorious Winner. Advisor: Youlong Yang (Xidian University) AFFLIATION • Student Member, IEEE Aug 2021 - Dec 2023 REFERENCES AVAILABLE UPON REQUEST.