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
- Adversarial Attack and Defense in Deep Learning
- Linux Operating System Development and Administration

EXPERIENCE

- Wormpex AI Research LLC   Bellevue, WA, USA 98004
  Research Intern (Computer Vision)   05/2022 - 08/2022

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

PUBLICATIONS

Google Scholar Profile: scholar.google.com/citations?user=BVIO95UAAAAJ
H-Index: 5   Citations: 666   Jun. 04, 2022
ORCiD: https://orcid.org/0000-0003-3813-4875
Publons: https://publons.com/researcher/4930582/mo-zhou
Semantic Scholar: www.semanticscholar.org/author/Mo-Zhou/2109097390

JOURNAL ARTICLES: (0 TPAMI, 1 TMM)

[IEEE Xplore]   [J01] Le Wang, <u>Mo Zhou</u>, 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 AAAI)

[PDF] [arXiv] [Github]   [C01] <u>Mo Zhou</u>, 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]   [C02] <u>Mo Zhou</u>, Le Wang, Zhenxing Niu, Qilin Zhang, Yinghui Xu, Nanning Zheng, Gang Hua, *"Practical Order Attack in Deep Ranking,"* in Proc. IEEE International Conf. on Computer Vision (ICCV), 2021.

[PDF] [arXiv] [Github]   [C03] Liushuai Shi, Le Wang, Chengjiang Long, Sanping Zhou, <u>Mo Zhou</u>, Zhenxing Niu, Gang Hua, *"SGCN: Sparse Graph Convolution for Pedestrian Trajectory Prediction",* In Proc. IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), 2021.

[PDF] [arXiv] [Github]   [C04] <u>Mo Zhou</u>, Zhenxing Niu, Le Wang, Qilin Zhang, Gang Hua, *"Adversarial Ranking Attack and Defense,"* in Proc. European Conf. on Computer Vision (ECCV), 2020.

[PDF] [arXiv] [Github]   [C05] <u>Mo Zhou</u>, Zhenxing Niu, Le Wang, Zhanning Gao, Qilin Zhang, Gang Hua, *"Ladder Loss for Coherent Visual-Semantic Embedding,"* in Proc. AAAI Conf. on Artificial Intelligence (AAAI), 2020.

[PDF]   [C06] Zhenxing Niu, <u>Mo Zhou</u>, Le Wang, Xinbo Gao, Gang Hua, *"Hierarchical Multimodal LSTM for Dense Visual-Semantic Embedding,"* in Proc. IEEE International Conf. on Computer Vision (ICCV), 2017.

[PDF] [Dataset]   [C07] Zhenxing Niu, <u>Mo Zhou</u>, 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 PAPERS:

[arXiv]   [X01] <u>Mo Zhou</u>, Vishal M. Patel, *"On Trace of PGD-Like Adversarial Attacks,"* 2022, Under Review.

[arXiv] [Github]   [X02] <u>Mo Zhou</u>, Le Wang, Zhenxing Niu, Qilin Zhang, Nanning Zheng, Gang Hua, *"Adversarial Attack and Defense in Deep Ranking,"* 2021, Under Review.

PATENTS

[P01] Le Wang, <u>Mo Zhou</u>, Sanping Zhou, Shitao Chen, Jingmin Xin, Nanning Zheng, "A Practical Relative Order Adversarial Attack Method". Chinese Patent Application No. 202110998691.9. (Under Application)

[P02] Zhenxing Niu, Wei Xue, <u>Mo Zhou</u>, 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)	2020, 2021, 2022
○ Conf. on Neural Information Processing Systems (NeurIPS)	2022
○ International Conf. on Computer Vision (ICCV)	2021
○ European Conf. on Computer Vision (ECCV)	2020, 2022
○ Int. Conf. Learning Representations (ICLR)	2022
○ AAAI Conf. on Artificial Intelligence (AAAI)	2021, 2022
○ Winter Conf. on Applications of Computer Vision (WACV)	2021, 2022, 2023
○ Asian Conf. on Computer vision (ACCV)	2018, 2020, 2022

- Reviewer for International Journals

○ IEEE Trans. on Pattern Analysis and Machine Intelligence (TPAMI)	2021, 2022
○ IEEE Trans. on Dependable and Secure Computing (TDSC)	2022
○ Elsevier Journal of Neural Networks (NeuNet)	2022
○ Elsevier Journal of Neurocomputing (NeuComp)	2021
○ Springer Journal of Machine Vision and Application (MVA)	2020, 2021
○ Springer Journal of Complex & Intelligent Systems (CAIS)	2021, 2022

- Volunteer in Non-profit Free Software Communities

○ Official Developer for Debian GNU/Linux	08/2018 – Current
○ Contributor for Gentoo GNU/Linux	06/2019 – 08/2019

HONORS	• One of Outstanding Reviewers for ICCV 2021	2021
	• Open Source Promotion Plan (OSPP) with Tsinghua University TUNA Association Project: *Integrating Data Science Software (incl. Xgboost, etc.) into Debian* (Best Quality Award)	2020
	• 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	2021 – 2022
REFERENCES	AVAILABLE UPON REQUEST.	