

## Mo Zhou

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STATUS	Chinese citizen	
CURRENT	<ul style="list-style-type: none"><li>Johns Hopkins University Baltimore, MD, USA 21218 Electrical and Computer Engineering, Whiting School of Engineering <i>Ph.D.</i> Electrical and Electronics Engineering 08/2021 - Current</li></ul>	
INTERESTS	<ul style="list-style-type: none"><li>Machine Learning, Deep Learning and Computer Vision</li><li>Deep Metric Learning and Cross-modal Retrieval</li><li>Adversarial Attack and Defense in Deep Learning</li><li>Linux Operating System Development and Administration</li></ul>	
EXPERIENCE	<ul style="list-style-type: none"><li>Wormpex AI Research LLC Bellevue, WA, USA 98004 Research Intern (Computer Vision) 05/2022 - 08/2022</li><li>Xi'an Jiaotong University Xi'an, Shaanxi, China 710049 Institute of Artificial Intelligence and Robotics (IAIR) Research Assistant (Computer Vision) 07/2020 - 06/2021</li></ul>	
EDUCATION	<ul style="list-style-type: none"><li>Xidian University Xi'an, Shaanxi, China 710071 <i>M.S.</i> Pattern Recognition and Intelligent Systems. July, 2020 09/2017 - 06/2020 <i>Thesis:</i> Coherent Visual-Semantic Embedding for Cross-Modal Retrieval</li><li>Xidian University Xi'an, Shaanxi, China 710126 <i>B.S.</i> Electromagnetic Field and Wireless Technology. July, 2017 09/2013 - 07/2017</li></ul>	
PUBLICATIONS	Google Scholar Profile: <a href="https://scholar.google.com/citations?user=BVIO95UAAAAJ">scholar.google.com/citations?user=BVIO95UAAAAJ</a> H-Index: 5 Citations: 666 Jun. 04, 2022 ORCID: <a href="https://orcid.org/0000-0003-3813-4875">https://orcid.org/0000-0003-3813-4875</a> Publons: <a href="https://publons.com/researcher/4930582/mo-zhou">https://publons.com/researcher/4930582/mo-zhou</a> Semantic Scholar: <a href="https://www.semanticscholar.org/author/Mo-Zhou/2109097390">www.semanticscholar.org/author/Mo-Zhou/2109097390</a>	
JOURNAL ARTICLES:	(0 TPAMI, 1 TMM)	
	[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. <a href="#">[IEEE Xplore]</a>	
CONFERENCE PAPERS:	(3 CVPR, 2 ICCV, 1 ECCV, 1 AAAI)	
	[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. <a href="#">[arXiv]</a> <a href="#">[Github]</a>	
	[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. <a href="#">[PDF]</a> <a href="#">[arXiv]</a> <a href="#">[Github]</a>	

- [C03] Liushuai Shi, Le Wang, Chengjiang Long, Sanping Zhou, Mo Zhou, 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] Mo Zhou, 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] Mo Zhou, 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. [\[PDF\]](#) [\[arXiv\]](#) [\[Github\]](#)
- [C06] Zhenxing Niu, Mo Zhou, Le Wang, Xinbo Gao, Gang Hua, “*Hierarchical Multimodal LSTM for Dense Visual-Semantic Embedding*,” in Proc. IEEE International Conf. on Computer Vision (ICCV), 2017. [\[PDF\]](#)
- [C07] 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. [\[PDF\]](#) [\[Dataset\]](#)



#### PREPRINT PAPERS:

- [X01] Mo Zhou, Vishal M. Patel, “*On Trace of PGD-Like Adversarial Attacks*,” 2022, Under Review. [\[arXiv\]](#)
- [X02] Mo Zhou, Le Wang, Zhenxing Niu, Qilin Zhang, Nanning Zheng, Gang Hua, “*Adversarial Attack and Defense in Deep Ranking*,” 2021, Under Review. [\[arXiv\]](#) [\[Github\]](#)

#### PATENTS

- [P01] Le Wang, Mo Zhou, 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, 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) 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
  - Asian Conf. on Computer vision (ACCV) 2018, 2020
- Reviewer for International Journals
  - IEEE, Trans. on Pattern Analysis and Machine Intelligence (TPAMI) 2021
  - Elsevier, Neurocomputing 2021
  - Springer, Journal of Machine Vision and Application (MVA) 2020, 2021
  - Springer, 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 <a href="#">Outstanding Reviewers</a> for ICCV 2021	2021
	• Open Source Promotion Plan (OSPP) with Tsinghua University TUNA Association Project: <i>Integrating Data Science Software (incl. Xgboost, etc.) into Debian</i> (Best Quality Award)	2020
	• Google Summer of Code (GSoC) with Debian Project Project: <i>BLAS/LAPACK Ecosystem Enhancement for Debian</i>	2020
	• Google Summer of Code (GSoC) with Gentoo Foundation Project: <i>BLAS and LAPACK Runtime Switching</i>	2019
	• Xidian University Secondary School Scholarship. <sup>+</sup>	2017-2018
	• Interdisciplinary Contest in Modeling (ICM) Meritorious Winner. Advisor: Youlong Yang (Xidian University)	2016
AFFILIATION	• Student Member, IEEE	2021 – 2022
REFERENCES	AVAILABLE UPON REQUEST.	