

## Mo Zhou

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STATUS	Chinese citizen	
CURRENT	<ul style="list-style-type: none"><li>Johns Hopkins University Baltimore, MD, USA 21218 Dept. 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 (Vision + Language)</li><li>Object Recognition and Object Detection</li><li>Adversarial Attack and Defense in Deep Learning (AI Security)</li><li>Linux Operating System Development and Administration</li></ul>	
EXPERIENCE	<ul style="list-style-type: none"><li>Microsoft Corporation Redmond, WA 98052 Applied Sciences Group Research Intern (Deep Learning) 05/2023 - 08/2023</li><li>Wormpex AI Research LLC Bellevue, WA 98004 Research Intern (Computer Vision) 05/2022 - 08/2022</li><li>Xi'an Jiaotong University Xi'an, Shaanxi 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.Eng.</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.Eng.</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> Citations: 890 H-Index: 6 i10-Index: 6 Feb. 27, 2023 Other Identifiers: <a href="#">[ORCID]</a> <a href="#">[Publons]</a> <a href="#">[Semantic Scholar]</a> <a href="#">[Web of Science]</a> <a href="#">[DBLP]</a>	
	JOURNAL ARTICLES:	(0 TPAMI, 1 TMM)
<a href="#">[IEEE Xplore]</a>	[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 NeurIPS, 1 AAAI)
<a href="#">[PDF]</a> <a href="#">[Github]</a>	[C01] Yiqun Mei, Pengfei Guo, <u>Mo Zhou</u> , Vishal M. Patel, "Resource-Adaptive Federated Learning with All-In-One Neural Composition," Advances in Neural Information Processing 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] [C03] Mo Zhou, 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] [C04] 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] [C05] 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] [C06] 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] [C07] 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] [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:

- [X01] Yu Zeng, Mo Zhou, Vishal M. Patel, “*(about generated image detection through watermarking)*”, 2023, Under Review (double-blind).
- [X02] Mo Zhou, Yiding Yang, Haoxiang Li, Vishal M. Patel, Gang Hua, “*(about object detection under some distribution shifts)*,” 2022, Under Review (double-blind).
- [arXiv] [X03] Mo Zhou, Vishal M. Patel, “*On Trace and Characterization of PGD-Like Adversarial Attacks*,” 2022, Under Review.
- [arXiv] [Github] [X04] Mo Zhou, Le Wang, Zhenxing Niu, Qilin Zhang, Nanning Zheng, Gang Hua, “*Adversarial Attack and Defense in Deep Ranking*,” 2021, Under Review.

#### 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) 2020, 2021, 2022, 2023
  - Annual Conf. on Neural Information Processing Systems (NeurIPS) 2022
  - International Conf. on Computer Vision (ICCV) 2021, 2023
  - European Conf. on Computer Vision (ECCV) 2020, 2022
  - International Conf. Learning Representations (ICLR) 2022, 2023
  - International Conf. of Machine Learning (ICML) 2023
  - 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

	<ul style="list-style-type: none"> <li>o IEEE Trans. on Neural Networks and Learning Systems (TNNLS) 2022</li> <li>o IEEE Trans. on Dependable and Secure Computing (TDSC) 2022</li> <li>o Elsevier Journal of Neural Networks (NeuNet) 2022</li> <li>o Elsevier Journal of Neurocomputing (NeuComp) 2021</li> <li>o Springer Journal of Machine Vision and Application (MVA) 2020, 2021, 2022, 2023</li> <li>o Springer Journal of Complex &amp; Intelligent Systems (CAIS) 2021, 2022</li> </ul>
	<ul style="list-style-type: none"> <li>• Volunteer in Non-profit Free Software Communities</li> <li>o © <b>Official Developer</b> for Debian GNU/Linux [<a href="mailto:lumin@debian.org">lumin@debian.org</a>] 08/2018 – Current</li> <li>o 🐙 <b>Contributor</b> for Gentoo GNU/Linux 06/2019 – 08/2019</li> <li>o Contributor for “Deep Dive: AI” event, Open Source Initiative [<a href="#">Final Report</a>] 2022</li> </ul>
HONORS	<ul style="list-style-type: none"> <li>• <b>Outstanding Reviewer</b> for ICCV 2021 2021</li> <li>• Open Source Promotion Plan (OSPP) with Tsinghua University TUNA Association 2020 Project: <i>Integrating Data Science Software (incl. Xgboost, etc.) into Debian (Best Quality Award)</i></li> <li>• Google Summer of Code (GSoC) with Debian Project 2020 Project: <i>BLAS/LAPACK Ecosystem Enhancement for Debian</i></li> <li>• Google Summer of Code (GSoC) with Gentoo Foundation 2019 Project: <i>BLAS and LAPACK Runtime Switching</i></li> <li>• Xidian University Secondary School Scholarship.<sup>+</sup> 2017-2018</li> <li>• Interdisciplinary Contest in Modeling (ICM) 2016 Meritorious Winner. Advisor: Youlong Yang (Xidian University)</li> </ul>
AFFILIATION	<ul style="list-style-type: none"> <li>• Student Member, IEEE Aug 2021 – Dec 2023</li> </ul>
REFERENCES	AVAILABLE UPON REQUEST.