

Jie Zhang

Associate Professor, Doctoral Advisor

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Education

Sep. 2013 – Jun. 2017, Ph.D. in Computer Application, the Institute of Computing Technology (ICT), Chinese Academy of Sciences (CAS), Beijing

Sep. 2011 – Aug. 2013, M. Eng. in Computer Application, the Institute of Computing Technology (ICT), Chinese Academy of Sciences (CAS), Beijing

Sep. 2007 – Jul. 2011, B. Eng. in Software Engineering, China University of Geosciences, Wuhan

Professional Experience

Sep. 2019 – Present, Associate Professor in Institute of Computing Technology, CAS

Jul. 2017 – Aug. 2019, Assistant Professor in Institute of Computing Technology, CAS

Research Interest

My research interests cover computer vision, pattern recognition, machine learning, particularly include adversarial attacks and defenses, domain generalization, AI safety and trustworthiness.

Honors and Awards

2025, Young Scientist Award of the Chinese Society of Image and Graphics (CSIG)

2025, Second Prize in the Science and Technology Progress Award by the China Computer Federation (CCF)

2024, First Prize in Natural Science Award by the Chinese Society of Image and Graphics (CSIG)

2024, Second Prize in Science and Technology Progress Award by China Railway Society

2024, Gusu Leading Talent Award

2023, Beijing Nova Program

2022, Member of Youth Innovation Promotion Association of Chinese Academy of

Sciences

2021, MSRA “Casting Star Project”

2020, Runner-up Award in IEEE FG Identity-preserved Human Detection Challenge

2017, Championship Award in ACM MM Kinship Recognition Challenge

2017, Runner-up Award in IEEE CVPR Landmark Detection Challenge

2015, Runner-up Award in IEEE ICCV Apparent Age Estimation Challenge

Academic Services

Associate Editor

Pattern Recognition (PR)

Conference Technical Program Committee

Area Chair:

Annual Conference on Neural Information Processing Systems (NeurIPS), 2025

Annual Meeting of the Association for Computational Linguistics (ACL), 2025

Reviewer:

Journal

IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)

International Journal of Computer Vision (IJCV)

IEEE Transactions on Image Processing (TIP)

IEEE Transactions on Neural Networks and Learning Systems (TNNLS)

IEEE Transactions on Multimedia (TMM)

IEEE Transactions on Cybernetics (TCyb)

IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)

Knowledge-Based Systems

Information Fusion

Neural Networks

Expert Systems With Applications

Computers & Security

IEEE Transactions on Intelligent Transportation Systems (TITS)

Information Sciences

Pattern Recognition (PR)

Conference

IEEE Conference on Computer Vision and Pattern Recognition (CVPR)

IEEE International Conference on Computer Vision (ICCV)

European Conference on Computer Vision (ECCV)

Annual Conference on Neural Information Processing Systems (NeurIPS)

International Conference on Learning Representations (ICLR)

International Conference on Machine Learning (ICML)

Selected Publications

Journals

[**TPAMI 2025**] Xingming Long, Jie Zhang*, Shiguang Shan. "Generalized Face Liveness Detection via De-fake Face Generator," IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), vol. 47, pp. 1818-1831, 2025.

[**TIP 2025**] Zheng Yuan, Jie Zhang*, Shiguang Shan, Xilin Chen. "FullLoRA: Efficiently Boosting the Robustness of Pretrained Vision Transformers," IEEE Transactions on Image Processing (TIP), vol 34, pp. 4580 – 4590, 2025.

[**TIFS 2025**] Jie Zhang, Zhifan Wan, Lanqing Hu, Stephen Lin, Shuzhe Wu, Shiguang Shan*. "Collaboratively Self-supervised Video Representation Learning for Action Recognition," IEEE Transactions on Information Forensics and Security (TIFS), vol. 20, pp. 1895-1907, 2025.

[**TPAMI 2024**] Zheng Yuan, Jie Zhang*, Zhaoyan Jiang, Liangliang Li, Shiguang Shan. "Adaptive Perturbation for Adversarial Attack," IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI) , 2024.

[**IJCV 2024**] Zheng Yuan, Jie Zhang*, Yude Wang, Shiguang Shan, Xilin Chen. "Towards Robust Semantic Segmentation against Patch-based Attack via Attention Refinement," International Journal of Computer Vision (IJCV), 2024.

[**TIP 2024**] Mingjie He, Jie Zhang, Shiguang Shan*, Xilin Chen. " Enhancing Face Recognition with Detachable Self-Supervised Bypass Networks," IEEE Transactions on Image Processing (TIP), vol. 33, pp. 1588 – 1599, 2024.

[**TIP 2023**] Yude Wang, Jie Zhang, Meina Kan, Shiguang Shan, Xilin Chen. "BLPSeg: Balance the Label Preference in Scribble-Supervised Semantic Segmentation," IEEE Transactions on Image Processing (TIP), vol. 32, pp. 4921-4934, 2023.

[**TIFS 2023**] Xingming Long, Jie Zhang, Shuzhe Wu, Xin Jin, Shiguang Shan*. "Dual Sampling Based Causal Intervention for Face Anti-Spoofing with Identity Debiasing," IEEE Transactions on Information Forensics and Security (TIFS), vol. 19, pp. 851-862, 2023.

[**TIP 2021**] Mingjie He, Jie Zhang, Shiguang Shan*, Xiao Liu, Zhongqin Wu, Xilin Chen. "Locality-aware Channel-wise Dropout for Occluded Face Recognition," IEEE Transactions on Image Processing (TIP), vol. 31, pp. 788-798, 2021.

[**TIFS 2021**] Yunpei Jia, Jie Zhang*, Shiguang Shan. "Dual-branch Meta-learning Network with Distribution Alignment for Face Anti-spoofing," IEEE Transactions on Information Forensics and Security (TIFS), vol. 17, pp. 138-151, 2021.

Conference Publications

[CVPR 2025] Zonghui Guo, Yingjie Liu, Jie Zhang, Haiyong Zheng, Shiguang Shan. "Face Forgery Video Detection via Temporal Forgery Cue Unraveling," IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2025.

[NeurIPS 2024] Xingming Long, Jie Zhang, Shiguang Shan, Xilin Chen. "Rethinking the Evaluation of Out-of-Distribution Detection: A Sorites Paradox," Annual Conference on Neural Information Processing Systems (NeurIPS), 2024.

[CVPR 2024] Sibowang, Jie Zhang, Zheng Yuan, Shiguang Shan. "Pre-trained Model Guided Fine-Tuning for Zero-Shot Adversarial Robustness," IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2024.

[CVPR 2024] Zonghui Guo, Xinyu Han, Jie Zhang, Shiguang Shan, Haiyong Zheng. "Video Harmonization with Triplet Spatio-Temporal Variation Patterns," IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2024.

[ECCV 2024] Zhongqi Wang, Jie Zhang, Shiguang Shan, Xilin Chen. T2IShield: Defending Against Backdoors on Text-to-Image Diffusion Models. European Conference on Computer Vision (ECCV), 2024.

[CVPR 2022] Mingjie He, Jie Zhang, Shiguang Shan, Xilin Chen. "Enhancing Face Recognition With Self-Supervised 3D Reconstruction," IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), pp. 4062-4071, 2022.

[ECCV 2022] Zheng Yuan, Jie Zhang, Shiguang Shan. "Adaptive Image Transformations for Transfer-Based Adversarial Attack," European Conference on Computer Vision (ECCV), pp. 1-17, 2022.

[ICCV 2021] Zheng Yuan, Jie Zhang, Yunpei Jia, Chuanqi Tan, Tao Xue, Shiguang Shan. "Meta Gradient Adversarial Attack," IEEE/CVF International Conference on Computer Vision (ICCV), pp. 7748-7757, 2021.

[CVPR 2020] Yude Wang, Jie Zhang, Meina Kan, Shiguang Shan, Xilin Chen. "Self-Supervised Equivariant Attention Mechanism for Weakly Supervised Semantic Segmentation," IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), pp. 12272-12281, 2020.

[CVPR 2020] Yunpei Jia, Jie Zhang, Shiguang Shan, Xilin Chen. "Single-side Domain Generalization for Face Anti-spoofing," IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), pp. 8484-8493, 2020.