

Yang Zhao

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EDUCATION

The University of Adelaide

Ph.D., Artificial Intelligence

Mar. 2018 – Present

Griffith University

Ph.D., Artificial Intelligence

Feb. 2018 – Present

Wuhan University of Technology

M.S., Computer Science

2014 – 2017

Wuhan University of Technology

B.S., Computer Science

2009 – 2013

PUBLICATIONS

Published Journal / Conference Papers:

- **Zhao, Y.**, Shen, C., Yu, X., Chen, H., Gao, Y., & Xiong, S. (2021). Learning Deep Part-Aware Embedding for Person Retrieval. *Pattern Recognition (PR)*, 116, 107938.
- **Zhao, Y.**, Liu, Y., Shen, C., Gao, Y., & Xiong, S. (2020). MobileFAN: transferring deep hidden representation for face alignment. *Pattern Recognition (PR)*, 100, 107114.
- Yu, X., **Zhao, Y.**, Gao, Y., & Xiong, S. (2021). MaskCOV: A Random Mask Covariance Network for Ultra-Fine-Grained Visual Categorization. *Pattern Recognition (PR)*, 108067.
- Wang, J., Sun, K., Cheng, T., Jiang, B., Deng, C., **Zhao, Y.**, ... & Xiao, B. (2020). Deep high-resolution representation learning for visual recognition. *IEEE transactions on pattern analysis and machine intelligence (TPAMI)*.
- Yu, X., **Zhao, Y.**, Gao, Y., Xiong, S., & Yuan, X. (2020). Patchy Image Structure Classification Using Multi-Orientation Region Transform. In *Proceedings of the AAAI Conference on Artificial Intelligence (AAAI)*, Vol. 34, No. 07, pp. 12741-12748.

Under Review Papers:

- **Zhao, Y.**, Wang, X., Yu, X., Shen, C., Gao, Y., Gait-Assisted Video Person Retrieval. In *Proceedings of ACM international conference on Multimedia (MM2021)*.
- **Zhao, Y.**, Yu, X., Gao, Y., Shen, C., Learning Discriminative Region Representation for Person Retrieval. *Pattern Recognition (PR)*.
- Yu, X., **Zhao, Y.**, Gao, Y., Yuan, X., Xiong, S., Benchmark Platform for Visual Classification Beyond Human Performance. In *Proceedings of the IEEE International Conference on Computer Vision (ICCV2021)*.

MAIN PROJECTS

Facial Landmark Detection

2018 – 2019

- Introduced a lightweight and effective knowledge distillation method for face alignment. Accepted in **PR**.
- Applied HRNetV2 in face alignment that surpasses state-of-the-art models. Accepted in **TPAMI**.

Person Retrieval

2019 – 2021

- Introduced an improved triplet loss that encourages positive pairs as close as possible and penalizes negative pairs proportional to their distances for effective person retrieval. Accepted in **PR**.
- Introduced a novel identity-guided human region segmentation method that can predict informative region segments, enabling discriminative region representation learning for person retrieval. Submitted to **PR**.
- Built a two-stream appearance-gait network to jointly learn the appearance features and gait features from RGB video clips and silhouette video clips for improved video person retrieval. Submitted to **MM2021**.

Fine-Grained Visual Categorization

2019 – 2021

- Developed a data augmentation method to mitigate overfitting and thus enhance generalization capability for FGVC. Accepted in **PR**.
- Developed the largest ultra-FGVC dataset (over 47,000 images) and evaluated extensive state-of-the-art methods as baselines to motivate further research on ultra-FGVC. Submitted to **ICCV2021**.

PROFESSIONAL ACTIVITY

Served as a reviewer for IEEE Transactions on Multimedia, ICCV 2021, CVPR 2021, IJCAI 2021, ICONIP 2020.