Yichun Shi

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⌖ https://github.com/seasonSH
⚲ https://scholar.google.com/citations?user=RXZChV0AAAAJ

🎓 Education

Ph.D. Computer Science 2016 - 2021

Michigan State University, GPA : 4.0/4.0
Supervisor : Anil K. Jain

B.S. Computer Science 2012 - 2016

Shanghai Jiao Tong University, IEEE Honored Class

💼 Experience

Research Scientist, ByteDance, USA 2021 - Present

Researching on machine learning techniques that could facilitate the creation of visual contents.

> Developing automatic image generation and editing systems.
> Conducting research on neural image synthesis and generative models.

Generative Model Image Synthesis Image Editing

Research Intern, NEC Lab of America May 2019 - Aug 2019

Developing a universal face representation model that could be used to recognize different kind of unconstrained faces.
The work was accepted to CVPR 2020.

Face Recognition Data Augmentation Representation Learning

PhD Intern, Visa Inc. May 2018 - Aug 2018

Conducting research on ID document face recognition.

Image Synthesis Face Recognition

📖 Publications

[1] **Y. Shi**, X. Yang, Y. Wan, and X. Shen, "Semanticstylegan : Learning compositional generative priors for controllable image synthesis and editing," *arXiv:2112.02236*, 2021.

[2] L. Zhang, X. Lei, **Y. Shi**, H. Huang, and C. Chen, "Federated learning with domain generalization," *arXiv:2111.10487*, 2021.

[3] **Y. Shi**, D. Aggarwal, and A. K. Jain, "Lifting 2d stylegan for 3d-aware face generation," in *CVPR*, 2021.

[4] **Y. Shi** and A. K. Jain, "Boosting unconstrained face recognition with auxiliary unlabeled data," in *CVPR Workshops*, 2021.

[5] **Y. Shi**, X. Yu, K. Sohn, M. Chandraker, and A. K. Jain, "Towards universal representation learning for deep face recognition," in *CVPR*, 2020.

[6] S. Gong, **Y. Shi**, and A. Jain, "Low quality video face recognition : Multi-mode aggregation recurrent network (marn)," in *CVPR Workshops*, 2019.

[7] **Y. Shi** and A. K. Jain, "Probabilistic face embeddings," in *ICCV*, 2019.

[8] S. Gong, Y. Shi, N. D. Kalka, and A. K. Jain, "Video face recognition : Component-wise feature aggregation network (c-fan)," in *ICB*, 2019.

[9] **Y. Shi**, D. Deb, and A. K. Jain, "Warpgan : Automatic caricature generation," in *CVPR*, 2019.

[10] **Y. Shi** and A. K. Jain, "Docface+ : Id document to selfie matching," *Trans. on Biometrics, Behavior, and Identity Science (T-BIOM)*, 2019.

[11] D. Deb, S. Wiper, S. Gong, **Y. Shi**, C. Tymoszek, A. Fletcher, and A. K. Jain, "Face recognition : Primates in the wild," in *Conf. on Biometrics Theory, Applications and Systems (BTAS)*, 2019.

[12] **Y. Shi** and A. K. Jain, "Docface : Matching id document photos to selfies," in *Conf. on Biometrics Theory, Applications and Systems (BTAS)*, 2019.

[13] **Y. Shi** and A. Jain, "Improving face recognition by exploring local features with visual attention," in *ICB*, 2018.

[14] **Y. Shi**, C. Otto, and A. K. Jain, "Face clustering : representation and pairwise constraints," *Trans. on Information Forensics and Security (TIFS)*, 2018.

🎓 ACADEMIC SERVICE

I have served as a reviewer for CVPR (2020,2021,2022), ICCV (2021), SIGGRAPH (2021), AAAI (2021,2022), WACV (2021,2022), TIP, TVCG, TIFS, Signal Processing, etc.