

# Taihong Xiao

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## Education

Ph.D. student, Computer Science, University of California at Merced, 2018-present (GPA: 4.0/4.0)

M.S. Applied Mathematics, School of Mathematical Sciences, Peking University, 2015-2018

B.S. Mathematics, Taishan College, Shandong University, 2011-2015

## Research Experience

1. Research Assistant, UC Merced, Aug. 2018 - present  
• Privacy-Preserving Learning Representations  
• Unsupervised Learning of Optical Flow  
Advisor: [Ming-Hsuan Yang](#)
2. Research Intern, [Google AI](#), Mountain View, May - Aug., 2019  
• Unsupervised Learning of Optical Flow  
Host: [Jinwei Yuan](#)
3. Research Intern, [Momenta](#), Beijing, Jun. - Aug., 2018  
• Domain Adaptation in Object Detection  
Advisor: Chaoqun Weng
4. Research Intern, [Megvii \(Face++\)](#), Beijing, Jan. - Nov., 2017  
• Face Attributes Transfiguration  
• Quantized Neural Networks  
Advisor: [Shuchang Zhou](#)
5. Research Assistant, Peking University, Jan. 2016 - May, 2018  
• Multiple Face Attribute Transfer  
• Disentangled Representations  
• Pedestrian Tracking  
Advisor: [Jinwen Ma](#)

## Publications ([Google Scholar](#))

1. Adversarial Learning of Privacy-Preserving and Task-Oriented Representations  
**Taihong Xiao**, Yi-Hsuan Tsai, Kihyuk Sohn, Manmohan Chandraker and Ming-Hsuan Yang  
*Thirty-Fourth AAAI Conference on Artificial Intelligence (AAAI)*, 2020  
[\[ArXiv\]](#)
2. ELEGANT: Exchanging Latent Encodings with GAN for Transferring Multiple Face Attributes  
**Taihong Xiao**, Jiapeng Hong and Jinwen Ma  
*Proceedings of the European Conference on Computer Vision (ECCV)*, 172–187, 2018  
[\[Paper\]](#) [\[ArXiv\]](#) [\[Poster\]](#) [\[GitHub\]](#)
3. DNA-GAN: Learning Disentangled Representations from Multi-Attribute Images  
**Taihong Xiao**, Jiapeng Hong and Jinwen Ma  
*International Conference on Learning Representations Workshop (ICLR)*, 2018  
[\[Paper\]](#) [\[ArXiv\]](#) [\[Poster\]](#) [\[GitHub\]](#)

4. GeneGAN: Learning Object Transfiguration and Attribute Subspace from Unpaired Data  
Shuchang Zhou, **Taihong Xiao**, Yi Yang, Dieqiao Feng, Qinyao He and Weiran He  
*Proceedings of the British Machine Vision Conference (BMVC)*, 2017 (**Oral Presentation**)  
[\[Paper\]](#) [\[ArXiv\]](#) [\[Slide\]](#) [\[GitHub\]](#)
5. IQNN: Training Quantized Neural Networks with Iterative Optimizations  
Shuchang Zhou, He Wen, **Taihong Xiao** and Xinyu Zhou  
*International Conference on Artificial Neural Networks (ICANN)*, 688-695, 2017  
[\[Paper\]](#)
6. An Integrated Learning Framework for Pedestrian Tracking  
**Taihong Xiao** and Jinwen Ma  
*International Conference on Intelligent Computing (ICIC)*, 95-106, 2017 (**Oral Presentation**)  
[\[Paper\]](#) [\[Slide\]](#) [\[Video\]](#) [\[GitHub\]](#)

## Open Source Projects ([GitHub](#))

1. **Wechat\_AutoJump** (1.3k Star)  
AI plays WeChat Jump Game  
[\[GitHub\]](#) [\[Zhihu\]](#) [\[Media\]](#)
2. **3D-GAN-pytorch**  
Pytorch implementation of 3D-GAN  
[\[GitHub\]](#) [\[Paper\]](#)
3. **Adversarial\_Reprogramming**  
Adversarial Reprogramming of Neural Networks  
[\[GitHub\]](#) [\[Paper\]](#)

## Teaching & Services

1. Reviewer, IEEE Transactions on Image Processing
2. Reviewer, Thirty-Fourth AAAI Conference on Artificial Intelligence (AAAI), 2020
3. Reviewer, IEEE Winter Conference on Applications of Computer Vision (WACV), 2020
4. Reviewer, IEEE International Conference on Computer Vision (ICCV), 2019
5. Reviewer, IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2019
6. Teaching Assistant, CSE 015 Discrete Math, UC Merced, Spring and Fall 2019
7. Teaching Assistant, CSE 140 Computer Architecture, UC Merced, Fall 2018
8. Teaching Assistant, Advanced Math B, Peking University, Fall 2016
9. Teaching Assistant, Mathematical Analysis I, Shandong University, Fall 2014

## Honors & Awards

1. ICLR Travel Award, 2018
2. National Scholarship, Peking University, 2015, 2016, 2017
3. Excellent Academic Performance Award, Peking University, 2016
4. Outstanding Thesis Award in Shandong Province, 2015
5. National Encouragement Scholarship, Shandong University, 2013