# Yifan Jiang

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## Education

**Huazhong University of Science and Technology**, Wuhan, China                    2015 – Present
*B.E.* in Electronic Information Engineering, Current GPA: 3.55/4.0

**University of Illinois at Urbana-Champaign**, Champaign, USA                    July. 2017
Summer Program 2017, Information Science & Engineering

## Publication

[1]  **Yifan Jiang**, Zhangyang Wang, Yu Cheng, and Xinyu Gong. "Deep Enlightening without Paired Supervision". In: *International Conference on Computer Vision and Pattern Recognition (**CVPR**) (under review)* (2018).

[2]  **Yifan Jiang***, Xiaoye Qu*, Xi Ouyang, Yu Cheng, Shiping Wen, Yang Yang, and Pan Zhou. "Attend to Where and When: Cascaded Attention Network for Facial Expression Recognition". In: *IEEE Transaction on Affective Computing (**TAC**) (under review) * equal contribution* (2018).

[3]  Xi Ouyang*, Yu Cheng*, **Yifan Jiang**, Chun-Liang Li, and Pan Zhou. "Pedestrian-Synthesis-GAN: Generating Pedestrian Data in Real Scene and Beyond". In: *preprint arXiv:1804.02047* (2018).

## Research Experience

**Texas A&M University (TAMU)**, College Station, TX                    July. 2018 – Present
*Research Assistant with Prof. Zhangyang (Atlas) Wang*

   *Unsupervised Low-light Image Enhancement*                    *July. 2018 - Present*
   - Designed unsupervised low light image enhancement method [1], which is the first one adopting unsupervised learning on low light image enhancement task.

**Huazhong University of Science and Technology**, Wuhan, China                    May. 2017 – June 2018
*Research Assistant with Prof. Pan Zhou, Collaborated with Dr. Yu Cheng (Microsoft AI Research)*

   *Facial Expression Recognition In Videos*                    *Dec. 2017 – Mar. 2018*
   - Designed a Cascaded Attention Network (CAN) [2], which is based on sptio-temporal attention, got state-of-the-art result on three common datasets.
   - Conducted ablation experiment to study the effort of spatial and temporal attention in facial expression task.

   *Generating Pedestrian Data in Real Scene*                    *July. 2017 – Nov. 2017*
   - Designed Pedestrian-Synthesis GAN (PS-GAN) [3], which can generate labeled pedestrian data to support the training of pedestrian detectors such as FastRCNN, SSD, YOLO.
   - Conducted experiment to study the effort of data augmentation by adding synthetic pedestrian data to real dataset.

## Competition

*Bei-Bei Seedcup (Machine Learning Competition)*                    *Sep. 2017 – Oct. 2017*
   - Designed a deep neural network with cross entropy loss by Tensorflow with a team member.
   - Cleansed data using python and Numpy.
   - Optimized basketball prediction accuracy up to 76% and awarded **1st prize** with 10,000 CNY.

## Project

*Simulation for Hospital Admin System*                    *Dec. 2017*
   - Designed the GUI using wxPython, built TCP connection between central control room and wards using ansycore, implemented synchronous non-blocking IO.

*Simple Parser for C Language*                    *Oct. 2016*
   - Built a simple parser which can analyze a short C programming code and predict the correct result/output of the code(only consider int variables) with two teammates.

*Website for Club Recruiting*                    *Aug. 2016*
   - Built a RESTful API for the recruit system by Flask, used Sqlite to build the database

## Skills

   - *Programming Language:* Python, C/C++, Javascript, Java, Matlab, Shell,
   - *Package:* Pytorch, Tensorflow, Flask, Tornado, Django

## Service

Reviewer for ACCV'18, AAAI'19, IEEE Transaction on Multimedia (TMM)

## Honors and Awards

**1st Prize** with 10,000 CNY, Awarded on Bei-Bei Seedcup 2017                    Oct. 2017
Technology Innovation Scholarship                    Sep. 2017