

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] Xinyu Gong, Shiyu Chang, **Yifan Jiang**, and Zhangyang Wang. “Blind Review”. In: *International Conference on Machine Learning (ICML) (under review)* (2019).
- [2] **Yifan Jiang**, Xinyu Gong, Zhangyang Wang, and Yu Cheng. “Blind Review”. In: *Computer Vision and Pattern Recognition (CVPR) (under review)* (2019).
- [3] **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 (TAFAC) (Major Revision) * equal contribution* (2018).
- [4] 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

Bytedance AI Lab, Beijing, China & Menlo Park, USA Jan. 2019 –
Adviser: Dr. Jianchao Yang and Dr. Ding Liu.

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

Neural Architecture Search for GAN Oct. 2018 - Jan. 2019

- Designed an Neural Architecture Search (NAS) method for Generative Adversarial Model (GAN) with 3 collaborators [1], which is the first work exploring the NAS method on generative models.

Low-light Image Enhancement July. 2018 - Nov. 2018

- Designed an unsupervised low light image enhancement method [2], which is the first one adopting unsupervised learning on low light image enhancement task.
- Conduct experiment on real-world images which proves that unpaired training enable us to train the model in various dataset.
- Wrote the paper.

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) [3] with a group member, which is based on spatio-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.
- Wrote the paper with a group member.

Generating Pedestrian Data in Real Scene

July. 2017 – Nov. 2017

- Designed Pedestrian-Synthesis GAN [4] with a group member, 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 and testing mAP results.
- Wrote the paper with two group members.

COMPETITION

HUST Seedcup (Machine Learning Competition)

Sep. 2017 – Oct. 2017

- Designed a deep neural network with cross entropy loss to predict basketball game results using Tensorflow with a team member.
- Cleansed data using python and Numpy.
- Optimized basketball game prediction accuracy up to 76% and awarded **1st prize** with 10,000 CNY.

PROJECT

Recommendation System for E-shopping based on Hadoop

Dec. 2018

- Used hadoop and HDFS to build the pipeline of the recommendation system for E-shopping with team members.
- Designed machine learning algorithm for recommendation using python with two team members.

Simulation for Hospital Admin System

Dec. 2017

- Designed the GUI using wxPython,
- Built TCP connection between central control room and wards using anyscore and implemented synchronous non-blocking IO.

Simple Parser for C Language

Oct. 2016

A simple parser which can analyze a short C programming code and predict the correct result/output of the code(only consider int variables)

- Built the lexical analyzer using C.
- Built the parser with two team members.

Website for Club Recruiting

Aug. 2016

- Built a RESTful API for the recruit system by Flask.
- Used Sqlite to build the database.

SKILLS

- **Programming Languages:** Python, C/C++, Javascript, Java, \LaTeX Matlab, Shell
- **Deep Learning & Computer Vision:** Pytorch, Tensorflow, openCV
- **Web Design:** HTML, CSS, Flask, Tornado ,Django
- **Operating Systems:** Linux, Windows, macOS
- **FPGA:** VerilogHDL

SERVICE

Reviewer for ACCV'18, AAAI'19

HONORS AND AWARDS

1st Prize with 10,000 CNY, Awarded on HUST Seedcup machine learning competition 2017

Oct. 2017

Technology Innovation Scholarship

Sep. 2017