Gongze **Cao**

No.1 Dorm, Yuquan campus, Hangzhou, Zhejiang Province, P. R. China

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"Only the sun has a right to its spots."

Education

B.S. in Mathematics and Applied Mathematics — *Zhejiang University*

Pursuit Science Class, Chu Kochen Honors College — *Hangzhou, China*

Sep. 2014 - Anticipated June 2018

Research Interests

My research interests mainly lie in deep learning and its applications on generative models. I am also interested in some computer vision tasks such as object detection and segmentation.

Research Experience

Undergraduate Research Intern — *Hangzhou, China*

Zhejiang Provincial Key Laboratory of Service Robot, Zhejiang University — *Aug. 2017 - Present*

Skills

Programming	Python, C, LaTeX, limited experience about C++, Java and Matlab
Deep Learning	Tensorflow, scipy with Python, limited experience about pyspark and GPU programming
Languages	English, Japanese, Chinese

Publications

TripletGAN: Training Generative Model with Triplet Loss — *arxiv preprint*

Gongze Cao, Yezhou Yang, Jie Lei, Cheng Jin, Yang Liu, Mingli Song

- A new adversarial modeling method trained with triplet loss, with both proof guaranteed its effectiveness and extensive experiments showing its superiority over other models.

ST-GAN: Unsupervised Facial Image Semantic Transformation Using Generative Adversarial Networks — *ACML 2017*

JiChao Zhang, Fan Zhong, **Gongze Cao** Xueying Qin

- Utilizing information maximization to obtain disentangled embeddings for an unlabeled facial dataset, then perform on embeddings to get semantically different images.

Game among Interdependent Networks: The Impact of Rationality on System Robustness — *EPL (Europhysics Letters), 116, 6.*

Yuhang Fan, **Gongze Cao**, Shibo He, Jiming Chen, Youxian Sun

- A study on the cooperation of interdependent networks. It is shown that the rationality of entities hampers the stability of the system with both continuous and discrete strategy space.

Project

TF_Deformable_Net

- A implementation of Deformable Convolution Net, including reinplementation of two key operations in tensorflow.

WGAN-tensorflow

- An inplementation of WGAN and WGAN-gp in tensorflow.