Mr Hangyu Lin

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Research Interests

My research interests lie in the general area of machine learning, particularly in deep learning, computer vision, as well as their applications in sketch understanding, image synthesis/manipulation/inpainting, self-supervised learning.

Education

- **Master in Statistics (Machine Learning)** — **Shanghai, China**
  School of Data Science, Fudan University — *Sep. 2018 - Present*
  Supervised by Prof. Yanwei Fu, GPA: 3.86/4.0, Rank: 1/31

- **Bachelor in Data Science** — **Shanghai, China**
  School of Data Science, Fudan University — *Sep. 2014 - Jun. 2018*
  GPA: 3.63/4.0, Major GPA: 3.93/4.0, Rank: 3/36

Publications

- **Sketch-BERT: Learning Sketch Bidirectional Encoder Representation from Transformers by Self-supervised Learning of Sketch Gestalt**
  Hangyu Lin, Yanwei Fu, Yu-Gang Jiang, Xiangyang Xue
  In *Proceedings of 2020 IEEE Conference on Computer Vision and Pattern Recognition*. **CVPR 2020**.
- **TC-Net for iSBIR: Triplet Classification Network for instance-level Sketch Based Image Retrieval (Oral)**
  Hangyu Lin, Yanwei Fu, Peng Lu, Shaogang Gong, Xiangyang Xue, Yu-Gang Jiang
  In *Proceedings of the 27th ACM International Conference on Multimedia* . **ACM MM 2019**.
- **Verb Pattern:A Probabilistic Semantic Representation on Verbs**
  Wanyun Cui, Xiyou Zhou, **Hangyu Lin**, Yanghua Xiao, Haixun Wang, Seung-won Hwang, Wei Wang
  In *Proceedings of the 31st AAAI Conference on Artificial Intelligence*. **AAAI 2017**.

Interships

- **Youtu Lab, Tancent** — **Shanghai, China**
  Research Intern — *Jan. 2020 - Present*
  Advised by Ying Tai, focus on face manipulation and high-fidelity image synthesis.
  Doing research on high-fidelity face swapping.

- **University of California San Diego** — **Shanghai, China**
  Remote Summer Intern — *Mar. 2020 - Present*
  Advised by Prof. Xiaolong Wang, focus on self-supervised learning for affordance prediction
  Implementing MOCO framework for affordance prediction.

- **Megvii Tech.** — **Beijing, China**
  Research Intern — *Jun. 2018 - Sep. 2018*
  Advised by Xiangyu Zhang, focus on image inpainting and style transfer tasks.
  Proposed a new iterative method which achieve the state-of-art performance for image inpainting.

- **YITU Tech.** **Shanghai, China**
  Software Engineering Intern *Jul. 2017 - Aug. 2017*
  Worked in the Face Platform team, use C++ to implement the encryption module for the system.
  Finished the function test and performance test of this encryption module.

Projects

- **Reimplementation for Deepfillv2 (Github 200+ Stars)**
  Reimplemented the deepfill v2 algorithm for image inpainting in Pytorch.
- **Iterative Refinement Model for Image Inpainting.**
  Designed a new algorithm based on iterative refinement framework for image inpainting, achieving state of the art performance. (Submitting to TIP).
- **Layer Skipping Network for Image Recognition**
  Proposed a framework based on layer skipping technique that enables the coarse-to-fine object categorization. (Submitting to TIP)
- **Pacman Contest (1st place in the class)**
  Implemented Q-learning, Minimax Search, Monto-carlo Tree Search,and particle filter for Pacman Contest.

Honors and Awards

- 2016 The EMC Prize Scholarship **(top 10%)**
- 2017 Meritorious Winner of Mathematical Contest in Modeling **(top 15%)**
- 2017 1st runner-up of iShamrock Software Competition **(top 10%)**
- 2017 National Scholarships **(top 3%)**
- 2018 Hui-Chun Chin and Tsung-Dao Lee Chinese Undergraduate Researcher
- 2019 National Scholarships **(top 3%)**