LIKUN CAI

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GitHub | Website | GoogleScholar | LinkedIn

Education

Fudan University — Shanghai, China
Ph.D. student in Computer Science — *Sep. 2020 – Present*

ShanghaiTech University — Shanghai, China
Master in Computer Science, GPA: 3.57 — *Sep. 2017 – Jul. 2020*

- Advisor: Prof. Ning Cai

Xidian University — Shaanxi, China
Bachelor in Space Information and Digital Technology, GPA: 3.6 — *Sep. 2013 – Jul. 2017*

- National Encouragement Scholarship

Research experience

Research Intern — Amazon Web Services
Shanghai, China — *Dec. 2020 - Jul. 2022*

- With Dr. Zhu Yi and Dr. Li Mu.
- Investigated strong and robust 2D object detection system for real-world scenarios with long-tailed distribution, few-shot, and open-vacabulary.
- Investigated large-scale pre-training pipeline for object-level representation.
- Investigated unsupervised semantic segmentation models.

Research Intern — Tencent GYLab
Shanghai, China — *Apr. 2020 - Aug. 2020*

- With Dr. Gang Yu.
- Investigated makeup transfer models for human face.
- Investigated face generative models with combination of generative adversarial nets and 3D face reconstruction.

Teaching Experience

Teaching Assistant of Digital Communication — ShanghaiTech University
Sep. 2019 - Dec. 2019

Teaching Assistant of Information Science and Technology — ShanghaiTech University
Feb. 2019 - Apr. 2019

Publications

"BigDetection: A Large-scale Benchmark for Improved Object Detector Pre-training." *CVPR Workshop on Vision Datasets Understanding*. 2022.
Likun Cai, Zhi Zhang, Yi Zhu, Li Zhang, Mu Li, and Xiangyang Xue.
[paper] [code]

"Utilizing Amari-Alpha Divergence to Stabilize the Training of Generative Adversarial Networks." *Entropy*. 2020.
Likun Cai, Yanjie Chen, Ning Cai, Wei Cheng, and Hao Wang.
[paper] [code]

"Super-Resolution Coding Defense Against Adversarial Examples." *International Conference on Multimedia Retrieval*. 2020.
Chen, Yanjie*, **Likun Cai***, Wei Cheng, and Hao Wang. (* indicates equal contributions.) [paper]

SKILLS

Programming: Proficient: Python; Familiar:Jave, Matlab, C/C++, Unix Shell Scripting

Operating System: Linux, MacOS, Windows

Other Skills: Git, Markdown, LaTeX

Language: Chinese, English: IELTS - 7.0 (L: 6.5; R: 7.5; W: 7.0; S: 6.5)