

# Junyi Cao

[✉ xjay2018@gmail.com](mailto:xjay2018@gmail.com) | [github.com/XJay18](https://github.com/XJay18) | [🎓 Google Scholar](#) | [🌐 Personal Homepage](#)

## Education

### Shanghai Jiao Tong University

Sep. 2021 – Mar. 2024 (Expected)

M.Eng. in Computer Science and Technology

GPA: 3.85/4

Core courses: Neural Network Theory and Application (A+), Image Processing and Machine Vision (A+), Optimization Method (A+), Machine Learning (A), Game Theory and the Internet Application (A), Big Data Processing Technologies (A).

### University of California, Berkeley

Aug. 2019 – Dec. 2019

Exchange Student

GPA: 3.81/4

Courses: CS 61B Data Structures (A+), CS 189 Introduction to Machine Learning (A)

### South China University of Technology

Sep. 2017 – Jun. 2021

B.Eng. in Software Engineering

GPA: 3.87/4

Core courses: Parallel Programming (96), Operating System (95), Computer Organization and Architecture (94), Artificial Intelligence (93), Digital Circuits and Logic Design (93), Principle of Compiler (92), Linear Algebra & Analytic Geometry (92), Probability & Mathematical Statistics (92), Program Design in C++ (90).

## Publications (\* stands for equal contribution)

- ▶ **Lightning NeRF: Efficient Hybrid Scene Representation for Autonomous Driving**  
[Junyi Cao](#), Zhichao Li, Naiyan Wang, Chao Ma. Accepted by *ICRA 2024*. [LINK].
- ▶ **Towards Unified Defense for Face Forgery and Spoofing Attacks via Dual Space Reconstruction Learning**  
[Junyi Cao](#), Ke-Yue Zhang, Taiping Yao, Shouhong Ding, Xiaokang Yang, Chao Ma. Submitted to *IJCV*. [LINK].
- ▶ **End-to-End Reconstruction-Classification Learning for Face Forgery Detection**  
[Junyi Cao](#), Chao Ma, Taiping Yao, Shen Chen, Shouhong Ding, Xiaokang Yang. In *CVPR 2022*. [LINK].
- ▶ **Structure Destruction and Content Combination for Generalizable Anti-Spoofing**  
Chengyang Hu, [Junyi Cao](#), Ke-Yue Zhang, Taiping Yao, Shouhong Ding, Lizhuang Ma. *IEEE TBIOM*, 2022. [LINK].
- ▶ **Co-attention Network with Label Embedding for Text Classification**  
Minqian Liu\*, Lizhao Liu\*, [Junyi Cao](#), Qing Du. *Neurocomputing*, 2022. [LINK].
- ▶ **Dynamic Extension Nets for Few-shot Semantic Segmentation**  
Lizhao Liu\*, [Junyi Cao](#)\*, Minqian Liu\*, Yong Guo\*, Qi Chen\*, Mingkui Tan. In *ACM MM 2020*. [LINK].

## Honors and Awards

- ▶ **First-class Academic Scholarship of Shanghai Jiao Tong University** 2022–2023
- ▶ **HyperGryph Scholarship (Top 5%)** 2022
- ▶ **First place in Artificial Intelligence Security Competition 2022 (Deepfake Track) | Tech Report** 2022
- ▶ **National Scholarship (Top 1%)** 2019
- ▶ **Outstanding Student Leader** 2018–2019
- ▶ **First-class Scholarship of South China University of Technology (Top 5%)** 2018

## Skills

### Programming Languages:

Python, Java, R, C++.

### Technologies & Tools:

PyTorch, Tensorflow, Git, Linux, SQL.

### Sports Activities:

Swimming, Cycling, Table Tennis, Badminton.

### Language Skills:

TOEFL: Total 109 (Reading 29 + Listening 30 + Speaking 23 + Writing 27).

GRE: Verbal 161 + Quantitative 170 + Writing 3.5.