

# Junyi Cao

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## Education

<b>Shanghai Jiao Tong University</b> M.Eng. in Computer Science and Technology 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).	Sep. 2021 – Mar. 2024 <b>GPA: 3.85/4</b>
<b>University of California, Berkeley</b> Exchange Student Courses: CS 61B Data Structures (A+), CS 189 Introduction to Machine Learning (A)	Aug. 2019 – Dec. 2019 <b>GPA: 3.81/4</b>
<b>South China University of Technology</b> B.Eng. in Software Engineering 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).	Sep. 2017 – Jun. 2021 <b>GPA: 3.87/4</b>

## Publications (\* stands for equal contribution)

- ▶ **NeuMA: Neural Material Adaptor for Visual Grounding of Intrinsic Dynamics**  
Junyi Cao, Shanyan Guan, Yanhao Ge, Wei Li, Xiaokang Yang, Chao Ma. In *NeurIPS*, 2024. [LINK].
- ▶ **Lightning NeRF: Efficient Hybrid Scene Representation for Autonomous Driving**  
Junyi Cao, Zhichao Li, Naiyan Wang, Chao Ma. In *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. *IJCV*, 2024. [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

▶ Outstanding Graduate of Shanghai Jiao Tong University (Top 5%)	2024
▶ 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.

### Language Skills:

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

GRE: Verbal 161 + Quantitative 170 + Writing 3.5.