

Ziniu Liu

GRADUATE, COMPUTER SCIENCE, COLUMBIA UNIVERSITY

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EDUCATION	Columbia University <i>Master of Science, Computer Science</i> Core Courses: • Artificial Intelligence • Reinforcement Learning • Computational Aspect of Robotics Fudan University (FDU), <i>Bachelor of Science, Computer Science and Technology</i> GPA: 3.51/4; (top 25% in department) Core Courses: • Mathematical Analysis • Linear Algebra • Introduction to Computer System • Introduction to Algorithms • Pattern Recognition • Computer Vision	New York, NY <i>Sept.2021 - Dec.2022 (Expected)</i> Shanghai, China <i>Sept.2017 - Jun.2021</i>
RESEARCH EXPERIENCES	Computer Vision Group, Fudan University <i>Supervisor: Prof. Yugang Jiang, Dr. Hao Zhang, Dr. Jingjing Chen</i> <ul style="list-style-type: none">- Implemented a novel architecture for AVA actions detection based on I3D and TSM- Proposed and implemented a novel three-stream architecture for video action detection- Create a new video description model using relation and distance to improve performance- Won third place in ACM MM Grand Challenge as a team member- Led a team to participated in Tencent Advertising Algorithm Competition	<i>Sept.2019 - Jun.2021</i>
INTERNSHIP	Shenzhen Wisonic Co., Image Algorithm Intern <i>Supervisor: Bing Yao, technical director of AI group</i> <ul style="list-style-type: none">- Used Matlab to process data and accomplished a neural network for OB's index plane ultrasonic images' classification- Constructed a module for getting saliency maps from feature maps back-propagation- Researched the Capsule Network, and tested its performance	<i>Jul. 2019 - Sept. 2019</i>
PROJECTS EXPERIENCE	MiniCovidNet for COVID-19 Description: Create a Lightweight Neural Network on chest X-ray images for COVID-19 detection. Achieved 96% accuracy on the test set while maintaining high speed. Second-hand Information Exchange Platform Description: Develop a second-hand information exchange platform as team leader. This App is designed for Fudan University's students and is greatly welcome. Books Reader Description: A Book Reader that has server-side and client-side communicate by network. GUI is based on Tkinter and encryption transmission is based on Crypto.	<i>By Pytorch</i> <i>By JavaScript & WeChat Mini Program</i> <i>By Python & Socket</i>
AWARDS & ACHIEVEMENTS	2020 Outstanding Member of FDU (top 10%) 2020 Third Prize for Excellent Student Award 2019 Third Prize for Excellent Student Award 2018 Third Prize for Programming Competition of FDU	
PUBLICATION	Person-level Action Recognition in Complex Events via TSD-TSM Networks Yanbing Hao, Ziniu Liu , Hao Zhang, Jingjing Chen <i>ACM Multimedia (MM) 2020</i>	
SKILLS	Language: Chinese (native) Programming Languages: C, C++, Python, \LaTeX , Matlab, Java, SQL Framework: Pytorch, OpenCV Other Tools: Github, Adobe Photoshop, Office	