

XU CAO

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EDUCATION

New York University

M.S. in Computer Science

Sep 2020 - Now

GPA: 3.933/4.000 (Major Top 5%)

Selected courses: Programming Languages; Fundamental Algorithms; Database Systems; Deep Learning Systems; Computer Vision; Operating Systems; Deep Reinforcement Learning; Natural Language Processing

Fudan University

B.S. in Chemistry & Data Science and Technology

Sep 2016 - Jun 2020

GPA: 3.32/4.00 (Major Top 1)

Undergraduate Thesis: Evaluation of Brachiocephalic Arteritis via Deep Learning

PUBLICATION

Cao Xu, Chang Sheng-Yuan. Research Progress of Catch Bonds in Molecular Adhesion[J]. Progress in Biochemistry and Biophysics, 2021

Cao Xu, Lin Yanghao. Caggnet: Crossing aggregation network for medical image segmentation. IAPR International Conference on Pattern Recognition (ICPR 2020). IEEE, 2021.

Cao Xu, Lan Fangzhou, Liu Chi-Man, Lam Tak-Wah, Luo Ruibang. ChromSeg: Two-Stage Framework for Overlapping Chromosome Segmentation and Reconstruction. 2020 IEEE International Conference on Bioinformatics and Biomedicine (BIBM). IEEE, 2020.

Cao Xu, Lin Yanghao. UCT-ADP Progressive Bias Algorithm for Solving Gomoku. 2019 IEEE Symposium Series on Computational Intelligence (SSCI). IEEE, 2019.

WORK EXPERIENCE

Tencent

Computer Vision Research Engineer Intern

Beijing, China

Jun 2021 - Aug 2021

- Research for Lane markings and lane change points detection.
- Proposed a new multi-stage architecture and use this model to develop an automatic lane detection application.
- Finished a pre-print conference paper.

Dow Chemical

Information Systems (I/S) Engineer Intern

Shanghai, China

Sep 2020 - Jan 2021

- Software Development for Integration Group, including mobile application of Microsoft Azure and Microsoft PowerApps.
- Develop and manage database via SAP server, GlobalScape.

The University of Hong Kong

Research Assistant Intern

Hong Kong, China

Jun 2019 - Sep 2019

- Proposed a new automatic chromosomes' segmentation algorithm called ChromSeg.
- Designed an automatic chromosomes' segmentation, classification and annotation software.
- Presented the research outline in HKU and published a conference paper to BIBM 2020.

Zhong Ou Asset Management Co., Ltd

Equity Research Intern

Shanghai, China

July 2018 - August 2018

- Wrote data analysis and securities research reports for Construction Industry using R and Python.