

EDUCATION**Beihang University** Beijing, China 09/2018–Present

- Major in Automation Science, Overall GPA: **3.5** / 4.0
- Research Interest: Artificial Intelligence, Computer Vision, Image Processing
- Programming & Software: Proficient in Python and C++ (two years' experience), and familiar with Matlab and Java

Main Course and Score

Mathematical Analysis (I) /(II)	92/86	Data Structure (C)	86
Computer Networks and Communication (Python)	91	Probability Statistics A	85
Pattern Recognition and Machine Learning (Python)	88	Digital Signal Processing (Matlab)	86
Introduction of Multi-information Fusion (Matlab)	93		

Awards and Honors

2 nd Prize in Chinese Physics Olympiad	09/2017
3 rd Prize in Chinese Mathematical Olympiad	09/2017

RESEARCH**Center for Pattern Recognition of Beihang University, Advisor: Prof. Wang Tian****MCI Image Diagnosis** 06/2021–08/2021

- Deployed MaskRCNN module onto the diagnosis of MCI images and got a relative great result
- Familiarized myself with medical image processing and data augmentation by reading relative papers
- Mastered the construction and tuning of complex net frames through applying and modifying MaskRCNN

Small Target Detection and Tracking of Infrared Images (Still in progress) 10/2021–Present

- Implemented detection algorithms of small target detection and tracking, like Canny, Suzuki and Kalman Filter
- Constructed rockets and satellites database on my own
- Comparing different module to solve this problem such as Yolo, Faster RCNN and Deformable DETR
- Trying to simplify the net to raise the speed and stability

Sensitive Content Detection 06/2019–08/2019

- Realized OCR with Python base on the algorithm of YOLO
- Detected Sensitive pictures especially in different frames based on the theory of YOWO
- Mastered knowledge of net construction, data augment and detection fusion

SELECTED PROJECTS**Medical Image Diagnosis Based on CENET***Pattern Recognition and Intelligent System*

- Built the CENET and UNET and successfully realized the task of bloodstream segmentation
- Used various ways to imply data augmentation on the relatively small scale data and dissolve the problems of data distribution
- Considered to be one of the best work among the class and get the full score of this experiment

Smart Car Races*Experiment Course of Computer Control and Detection*

- Mastered C++ with coding more than 5000 lines to control the car to successfully complete the race
- Familiarized with both hardware and software by coding, tuning and circuit wiring in my car
- Ranked the 3rd among the 8 teams and received a high score due to the innovation in edge detection

Estimated Fusion About Localization of Indoor Robots*Introduction of Multi-information Fusion*

- Built a KFM module by Matlab through clever mathematical transformation
- Realized the effective tracking of the motion trajectory with a pretty low total loss
- Considered to be one of the best modules among the class.

EXTRACURRICULAR ACTIVITY

Core Member of Go club of Beihang University	09/2018–Present
Participant invited by WICV	10/2018
Volunteer of Beihang Mini Marathon	12/2018