

## Education

***Hunan University, Changsha, China (985 Project)***

2021 Sep – 2024 Jun (Expected)

MS in Automation, GPA 3.68 / 4.0

*Academic focus / background:*

Machine Learning, Multiple Object Tracking, Re-Identification, Multi-task Learning

***Southwest Jiaotong University, Chengdu, China (211 Project)***

2017 Sep – 2021 Jun

BS in Vehicle Engineering, GPA 3.22 / 4.0

*Relevant courses:*

Linear Algebra, Basics of Computer Programming, Electronic Technology, Probability Theory and Mathematical Statistics, Basis of Control Engineering, etc.

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## Working Projects and Papers

***Institute of Automation, Chinese Academy of Sciences, Beijing, China*** 2022 Jul – 2023 Sep

*Research Assistant*

Team work:

- Assisted in accelerating the models and deploying them in Hikvision NVR in the project Intelligent Oilfield Safety Production Supervision Solution.

Individual research:

- Developed and optimized an ambiguous assignment strategy in multi-object tracking
- Designed a simple and efficient cross-camera matching method for multi-object tracking
- Developed a Multi-camera multi-object tracking system to collect information about participants in the Keirin cycle race (Joint project with the Hong Kong Polytechnic University)
- Analyzed the conflict between tasks in JDE framework in multi-object tracking
- Explored End-to-end tracking with transformer

***Hunan University, Changsha, China***

2021 Oct – 2022 Jun

*Funded by the National Natural Science Foundation of China*

- Captured workpiece images using the NCC template matching algorithm and constructed a dataset
  - Proposed further decoupling YOLOX
  - Conducted some ablation experiments on the modified YOLOX object detection algorithm
  - Assisted with the completion of a submitted paper:  
Fengjun Chen, Tao Wang, **Guangxun Zhu**, Tian Hu, and Xiaosheng Liang. "A further-decoupled YOLOX for automatic laser cylindrical lens sorting system". Engineering Applications of Artificial Intelligence. 2023. Submitted.
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## Honors & Awards

*Competition awards*

- Second Prize(Top 5%), CHINA-US YOUNG MAKER COMPETITION, 2020 (International level)
- Second Prize(Top 8%), National College Mechanical Innovation Competition, 2020 (National level)
- Third Prize, Chinese College Students' Originality Competition in Cranes, 2019 (National level)

#### *Scholarship*

- National Encouragement Scholarship, Southwest Jiaotong University, 2020
- The First Prize Scholarship, Hunan University, 2022
- The Second Prize Scholarship, Hunan University, 2021
- The Third Prize Scholarship, Southwest Jiaotong University, 2018&2019

#### *Honors*

- Outstanding Graduates, Southwest Jiaotong University, 2021
- Merit Student, Southwest Jiaotong University, 2020
- Excellent Student Cadre, Southwest Jiaotong University, 2018&2019

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## Activities Experiences

*Southwest Jiaotong University, Chengdu, China*

2018 Sep – 2019 Jun

*Deputy head of the overseas study service department of Class Unions*

- Organized overseas study experience sharing and other activities: cooperated with off-campus enterprises such as New Oriental
- Assisted the Bank of China to provide relevant financial services for students who intend to go abroad

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## Additional Info

- Familiar with machine learning algorithms and DL frameworks such as pytorch
- Familiar with most multi-object tracking and object detection methods
- Skilled in Python, C#, LaTeX, and other auxiliary software and libraries
- IELTS(Sep 2023): 6.5

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## References

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