

# Xue Yang (杨学)

**Institution:** Shanghai AI Laboratory

**Position:** Researcher

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**Homepage:** <https://yangxue0827.github.io>

**Interests:** CV, Object Detection, AI Agent, Vision-Language Models

## Education

2019.09 ~ 2023.07	Shanghai Jiao Tong University (985/211), Shanghai MoE-AI Lab, SJTU, Shanghai (First Wu Wenjun AI Honorary Doctorate Class)	<i>Ph.D.:</i> CSE <i>Supervisor:</i> <u>Prof. Junchi Yan</u>
2016.09 ~ 2019.07	University of Chinese Academy of Sciences, Beijing	<i>Master:</i> SIP
2012.09 ~ 2016.07	Central South University (985/211), Hunan	<i>Bachelor:</i> Automation

## Work Experience

2023.07 ~ Now	Shanghai AI Laboratory (Full Time), OpenGVLab, Shanghai Researcher, working with Prof. Jifeng Dai on AI Agent and Generic Vision.	 上海人工智能实验室 Shanghai Artificial Intelligence Laboratory
2023.02 ~ 2023.07	Shanghai AI Laboratory (Intern), OpenGVLab, Shanghai Working with Prof. Jifeng Dai on vision-language model.	 上海人工智能实验室 Shanghai Artificial Intelligence Laboratory
2022.02 ~ 2023.01	EI Innovation Lab, Huawei Cloud BU (Intern), Shanghai Working with Prof. Qi Tian and Dr. Xiaopeng Zhang on generic /object detection, one paper is accepted by ICLR 2023.	 HUAWEI
2020.10 ~ 2021.07	EI Innovation Lab, Huawei Cloud BU (Intern), Shenzhen Working with Prof. Qi Tian and Dr. Xiaopeng Zhang on generic/oriented object detection, two papers are accepted by ICML 2021 and NeurIPS 2021.	 HUAWEI
2018.12 ~ 2019.07	Detection Group, Megvii (Face++) Research (Intern), Beijing Working with Dr. Gang Yu on detection algorithms.	 MEGVII 旷视
2017.04 ~ 2017.07	Samsung Beijing Mobile R&D Center (Intern), Beijing	 SAMSUNG

## Selected Publications

**Google Scholar:** <https://scholar.google.com/citations?user=2xTlvV0AAAAJ&hl=en>

**Citation:** 4596

**GitHub:** <https://github.com/yangxue0827>, <https://github.com/DetectionTeamUCAS>

**Reviewer:** CVPR, ICCV, ECCV, NeurIPS, ICML, ICLR, AAAI, ACM MM; TPAMI, IJCV, TIP, PR, TCSVT

**Publication Summary:** 16 first author papers

Conference: CVPR/ICCV/ECCV (3/3/1), NeurIPS/ICML/ICLR (2/1/3), AAAI (2), ACM MM (1)

Journal: TPAMI (2), IJCV (1), IEEE Transactions (3)

Award: ESI Hot Cited Paper (1), ESI Highly Cited Paper (4), Most Influential Paper (2)

**Ph.D. Dissertation, Slides, Playback**

**LLMs and AI Agent**

- Auto MC-Reward: Automated Dense Reward Design with Large Language Models for Minecraft  
Hao Li\*, **Xue Yang\*** (equal contribution), Zhaokai Wang\*, Xizhou Zhu, Jie Zhou, Yu Qiao, Xiaogang Wang, Hongsheng Li, Lewei Lu, Jifeng Dai  
**Homepage:** [https://yangxue0827.github.io/auto\\_mc-reward.html](https://yangxue0827.github.io/auto_mc-reward.html)
- InternGPT: Solving Vision-Centric Tasks by Interacting with ChatGPT Beyond Language  
Zhaoyang Liu, Yinan He, Wenhai Wang, Weiyun Wang, Yi Wang, Shoufa Chen, Qinglong Zhang, Yang Yang, Qingyun Li, Jiashuo Yu, Kunchang Li, Zhe Chen, **Xue Yang**, Xizhou Zhu, Yali Wang, Limin Wang, Ping Luo, Jifeng Dai, Yu Qiao  
**Homepage:** <https://igpt.opengvlab.com/>

### **Oriented Object Detection (Selected)**

3. SCRDet++: Detecting Small, Cluttered and Rotated Objects via Instance-Level Feature Denoising and Rotation Loss Smoothing  
**Xue Yang**, Junchi Yan, Wenlong Liao, Xiaokang Yang, Jin Tang, Tao He  
TPAMI 2022 (CCF-A) **(ESI Hot Cited Papers, ESI Highly Cited Papers)**
4. Detecting Rotated Objects as Gaussian Distributions and Its 3-D Generalization  
**Xue Yang**, Gefan Zhang, Xiaojiang Yang, Yue Zhou, Wentao Wang, Jin Tang, Tao He, Junchi Yan  
TPAMI 2022 (CCF-A) **(ESI Highly Cited Papers)**
5. On the Arbitrary-Oriented Object Detection: Classification based Approaches Revisited  
**Xue Yang**, Junchi Yan  
IJCV 2022 (CCF-A)
6. Visual Oriented Object Detection via Feature Alignment and Gaussian Parameterization  
**Xue Yang**, Junchi Yan  
SCIENTIA SINICA Informationis, 2023 (CCF-T1)
7. H2RBox-v2: Incorporating Symmetry for Boosting Horizontal Box Supervised Oriented Object Detection  
Yi Yu\*, **Xue Yang\*** (equal contribution), Qingyun Li, Yue Zhou, Gefan Zhang, Feipeng Da, Junchi Yan  
NeurIPS 2023 (CCF-A)
8. H2RBox: Horizontal Box Annotation is All You Need for Oriented Object Detection  
**Xue Yang**, Gefan Zhang, Wentong Li, Xuehui Wang, Yue Zhou, Junchi Yan  
ICLR 2023 (Tsinghua-A)
9. The KFIOU Loss for Rotated Object Detection  
**Xue Yang**, Yue Zhou, Gefan Zhang, Jirui Yang, Wentao Wang, Junchi Yan, Xiaopeng Zhang, Qi Tian  
ICLR 2023 (Tsinghua-A)
10. MMRotate: A Rotated Object Detection Benchmark using PyTorch  
Yue Zhou\*, **Xue Yang\*** (equal contribution), Gefan Zhang, Jiabao Wang, Yanyi Liu, Liping Hou, Xue Jiang, Xingzhao Liu, Junchi Yan, Chengqi Lyu, Wenwei Zhang, Kai Chen  
ACM MM 2022 (CCF-A, **Oral**)
11. Learning High-Precision Bounding Box for Rotated Object Detection via Kullback-Leibler Divergence  
**Xue Yang**, Xiaojiang Yang, Jirui Yang, Qi Ming, Wentao Wang, Qi Tian, Junchi Yan  
NeurIPS 2021 (CCF-A)
12. Rethinking Rotated Object Detection with Gaussian Wasserstein Distance Loss  
**Xue Yang**, Junchi Yan, Qi Ming, Wentao Wang, Xiaopeng Zhang, Qi Tian  
ICML 2021 (CCF-A)
13. Dense Label Encoding for Boundary Discontinuity Free Rotation Detection  
**Xue Yang**, Liping Hou, Yue Zhou, Wentao Wang, Junchi Yan  
CVPR 2021 (CCF-A)
14. R<sup>3</sup>Det: Refined Single-Stage Detector with Feature Refinement for Rotating Object  
**Xue Yang**, Junchi Yan, Ziming Feng, Tao He  
AAAI 2021 (CCF-A) **(Most Influential AAAI'21 Paper, Top 1, Paper Digest)**
15. Arbitrary-Oriented Object Detection with Circular Smooth Label  
**Xue Yang**, Junchi Yan  
ECCV 2020 (CCF-B, Tsinghua-A)
16. SCRDet: Towards More Robust Detection for Small, Cluttered and Rotated Objects  
**Xue Yang**, Jirui Yang, Junchi Yan, Yue Zhang, Tengfei Zhang, Zhi Guo, Sun Xian, Kun Fu  
ICCV 2019 (CCF-A)
17. Automatic Ship Detection in Remote Sensing Images from Google Earth of Complex Scenes Based on Multiscale Rotation Dense Feature Pyramid Networks  
**Xue Yang**, Hao Sun, Kun Fu, Jirui Yang, Xian Sun, Menglong Yan, Zhi Guo  
Remote Sensing, 2018 **(ESI Highly Cited Papers)**

18. AlphaRotate: A Rotation Detection Benchmark using TensorFlow  
**Xue Yang**, Yue Zhou, Junchi Yan  
ICASSP, 2024 (CCF-B)
19. Learning Modulated Loss for Rotated Object Detection  
Wen Qian, **Xue Yang**, Silong Peng, Junchi Yan, Yue Guo  
AAAI 2021 (CCF-A) (**Most Influential AAAI'21 Paper, Top 10, Paper Digest**)
20. RSDet++: Point-based Modulated Loss for More Accurate Rotated Object Detection  
Wen Qian, **Xue Yang**, Silong Peng, Junchi Yan, Xiujuan Zhang  
TCSVT 2022 (CCF-B)
21. Task Interleaving and Orientation Estimation for High-Precision Oriented Object Detection in Aerial Images  
Qi Ming, Lingjuan Miao, Zhiqiang Zhou, Junjie Song, Yunpeng Dong, **Xue Yang**  
ISPRS 2023 (**ESI Highly Cited Papers**)

#### **Genertic Object Detection / Instance Segmentation**

22. PatchDCT: Patch Refinement for High Quality Instance Segmentation  
Qinrou Wen, Jirui Yang, **Xue Yang**, Kewei Liang  
ICLR 2023 (Tsinghua-A)
23. Rethinking Classification and Localization for Cascade R-CNN  
Ang Li, **Xue Yang**, Chongyang Zhang  
BMVC 2019 (CCF-C)

#### **Scene Text Detection and Recognition**

24. Self-supervised Implicit Glyph Attention for Text Recognition  
Tongkun Guan, Chaochen Gu, Jingzheng Tu, **Xue Yang**, Qi Feng, Yudi Zhao, Wei Shen  
CVPR 2023 (CCF-A)
25. Self-supervised Character-to-Character Distillation for Text Recognition  
Tongkun Guan, Wei Shen, **Xue Yang**, Qi Feng, Zekun Jiang, Xiaokang Yang  
ICCV 2023 (CCF-A)

#### **Low-Level Vision**

26. Dual-path Image Inpainting with Auxiliary GAN Inversion  
Wentao Wang, Li Niu, Jianfu Zhang, **Xue Yang**, Liqing Zhang  
CVPR 2022 (CCF-A)
27. Parallel Multi-Resolution Fusion Network for Image Inpainting  
Wentao Wang, Jianfu Zhang, Li Niu, Haoyu Ling, **Xue Yang**, Liqing Zhang  
ICCV 2021 (CCF-A)

### **Awards and Honors**

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2023	CCF Outstanding Doctoral Dissertation Award (nine winners in China)
2022/2023	World's Top 2% Scientists List
2023	Shanghai Outstanding Graduates
2022	CCF-CV Academic Emerging Scholar (three winners in China)
2022	Doctoral National Scholarship
2021	Nominated by SJTU Scholar Star (10 official and 10 nomination awards in SJTU)
2021	Top 40 in the ninth Baidu Scholarship
2021	Doctoral National Scholarship (Top 1 in CSE)
2019	Wu Wenjun Artificial Intelligence PhD Scholarship
2019	1 <sup>st</sup> Place in WAD2019 Challenge on the D <sup>2</sup> -City & BDD100K Detection Domain Adaption track
2019	3 <sup>rd</sup> /4 <sup>th</sup> Place in DOAI2019 Challenge on the HBB/OBB track
2016-2019	Outstanding Student Leader, Outstanding Student, Second Prize in PMCM (2017)
2012-2016	Outstanding Student Leader, Outstanding Student, Outstanding Graduates, National Inspirational Scholarship, Honorable Mention in MCM/ICM (2015), Second Prize in APMCM (2016)

## Open Source Projects

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All my open source projects on GitHub have accumulated more than 8,000 stars, Some major open source projects are as follow:

**1. AlphaRotate: A Rotation Detection Benchmark using TensorFlow**

Github (1.1k star): <https://github.com/yangxue0827/RotationDetection>

AlphaRotate is an open source rotation detection toolbox based on TensorFlow.

**2. MMRotate: A Rotated Object Detection Benchmark using PyTorch**

Github (1.6k star): <https://github.com/open-mmlab/mmrrotate>

MMRotate is an open source rotation detection toolbox based on PyTorch.

**3. DetectionTeamUCAS**

Github (2.5k star): <https://github.com/DetectionTeamUCAS>

It contains many general detection and rotation detection algorithms that reimplemented by myself.

**4. InternGPT**

Github (3.0k star): <https://github.com/OpenGVLab/InternGPT>

InternGPT (iGPT) is an open source demo platform where you can easily showcase your AI models. Now it supports DragGAN, ChatGPT, ImageBind, multimodal chat like GPT-4, SAM, interactive image editing, etc.

## Tech Report

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2023.06	<a href="#">W2: Remote Sensing Image Interpretation</a> Valse 2023, Wuxi: <a href="#">High-Precision Detection of Visual Oriented Object</a>
2023.03	<a href="#">OpenMMLab Community Forum: Weakly Supervised Oriented Object Detection</a>
2022.12	PRCV 2022 Doctoral Forum: <a href="#">High-Precision Detection of Visual Oriented Object</a>
2022.07	<a href="#">OpenMMLab Community Forum: High-Precision Detection of Visual Oriented Object</a>







# 杨学 (Xue Yang)

工作单位: 浦江国家实验室 (上海人工智能实验室)      职务: 青年研究员  
联系方式: (+86) 156-0013-5866      联系邮箱: [yangxue0827@126.com](mailto:yangxue0827@126.com), [yangxue@pjlab.org.cn](mailto:yangxue@pjlab.org.cn)  
个人主页: <https://yangxue0827.github.io>      研究方向: 计算机视觉/目标检测/AI 智能体/视觉语言大模型

## 教育背景

2019.09 ~ 2023.07	上海交通大学 (985/211), 上海 上海交通大学人工智能研究院, 上海 (首届吴文俊人工智能荣誉博士班成员)	博士: 计算机科学与技术 导师: <u>严骏驰教授</u>
2016.09 ~ 2019.07	中国科学院大学, 北京	硕士 (保研): 信号与信息处理
2012.09 ~ 2016.07	中南大学 (985/211), 湖南	本科: 自动化

## 工作经历

2023.07 ~ 至今	上海人工智能实验室 (全职), 通用视觉, 上海 研究 AI 智能体, 视觉语言大模型。	 上海人工智能实验室 Shanghai Artificial Intelligence Laboratory
2023.02 ~ 2023.07	上海人工智能实验室 (实习), 通用视觉, 上海 研究视觉语言大模型。	 上海人工智能实验室 Shanghai Artificial Intelligence Laboratory
2022.02 ~ 2023.01	华为云 (实习), EI 创新孵化实验室, 上海 研究通用/旋转目标检测。	 HUAWEI
2020.10 ~ 2021.07	华为云 (实习), EI 创新孵化实验室, 深圳 研究旋转目标检测。	 HUAWEI
2018.12 ~ 2019.07	旷视科技 (实习), 目标检测组, 北京 研究目标检测算法。	 MEGVII 旷视
2017.04 ~ 2017.07	中国三星电子研究院 (实习), 北京	 SAMSUNG

## 学术成果

谷歌学术: <https://scholar.google.com/citations?user=2xTlvV0AAAAJ&hl=zh-CN>      引用量: 4596

**GitHub:** <https://github.com/yangxue0827>, <https://github.com/DetectionTeamUCAS>

**审稿人:** CVPR, ICCV, ECCV, NeurIPS, ICML, ICLR, AAAI, ACM MM; TPAMI, IJCV, TIP, PR, TCSVT, TGRS

**文章发表情况:** CCF-A/清华-A 类共 20 篇, 其中第一作者论文 14 篇

**会议:** CVPR/ICCV/ECCV (3/3/1), NeurIPS/ICML/ICLR (2/1/3), AAAI (2), ACM MM (1)

**期刊:** TPAMI (2), IJCV (1), IEEE Transactions (3)

**荣誉:** ESI 热点论文(1), ESI 高被引论文(4), 最具影响力论文(2)

**博士论文, 答辩 PPT, 答辩回放**

**视觉语言大模型**

1. Auto MC-Reward: Automated Dense Reward Design with Large Language Models for Minecraft  
Hao Li\*, **Xue Yang\*** (共同一作), Zhaokai Wang\*, Xizhou Zhu, Jie Zhou, Yu Qiao, Xiaogang Wang, Hongsheng Li, Lewei Lu, Jifeng Dai  
主页: [https://yangxue0827.github.io/auto\\_mc-reward.html](https://yangxue0827.github.io/auto_mc-reward.html)
2. InternGPT: Solving Vision-Centric Tasks by Interacting with ChatGPT Beyond Language  
Zhaoyang Liu, Yinan He, Wenhai Wang, Weiyun Wang, Yi Wang, Shoufa Chen, Qinglong Zhang, Yang Yang, Qingyun Li, Jiashuo Yu, Kunchang Li, Zhe Chen, **Xue Yang**, Xizhou Zhu, Yali Wang, Limin Wang, Ping Luo, Jifeng Dai, Yu Qiao  
主页: <https://igpt.opengvlab.com/>

**有向目标检测 (部分)**

3. SCRDet++: Detecting Small, Cluttered and Rotated Objects via Instance-Level Feature Denoising and Rotation Loss Smoothing  
**Xue Yang**, Junchi Yan, Wenlong Liao, Xiaokang Yang, Jin Tang, Tao He

- TPAMI 2022 (CCF-A) (**ESI 热点论文, ESI 高被引论文**)
4. Detecting Rotated Objects as Gaussian Distributions and Its 3-D Generalization  
**Xue Yang**, Gefan Zhang, Xiaojiang Yang, Yue Zhou, Wentao Wang, Jin Tang, Tao He, Junchi Yan  
TPAMI 2022 (CCF-A) (**ESI 高被引论文**)
  5. On the Arbitrary-Oriented Object Detection: Classification based Approaches Revisited  
**Xue Yang**, Junchi Yan  
IJCV 2022 (CCF-A)
  6. 基于特征对齐和高斯表征的视觉有向目标检测  
杨学, 严骏驰  
《中国科学: 信息科学》, 2023 (CCF-T1)
  7. H2RBox-v2: Incorporating Symmetry for Boosting Horizontal Box Supervised Oriented Object Detection  
Yi Yu\*, **Xue Yang\*** (共同一作), Qingyun Li, Yue Zhou, Gefan Zhang, Feipeng Da, Junchi Yan  
NeurIPS 2023 (CCF-A)
  8. H2RBox: Horizontal Box Annotation is All You Need for Oriented Object Detection  
**Xue Yang**, Gefan Zhang, Wentong Li, Xuehui Wang, Yue Zhou, Junchi Yan  
ICLR 2023 (清华 A)
  9. The KFIOU Loss for Rotated Object Detection  
**Xue Yang**, Yue Zhou, Gefan Zhang, Jirui Yang, Wentao Wang, Junchi Yan, Xiaopeng Zhang, Qi Tian  
ICLR 2023 (清华 A)
  10. MMRotate: A Rotated Object Detection Benchmark using PyTorch  
Yue Zhou\*, **Xue Yang\*** (共同一作), Gefan Zhang, Jiabao Wang, Yanyi Liu, Liping Hou, Xue Jiang, Xingzhao Liu, Junchi Yan, Chengqi Lyu, Wenwei Zhang, Kai Chen  
ACM MM 2022 (CCF-A, **Oral**)
  11. Learning High-Precision Bounding Box for Rotated Object Detection via Kullback-Leibler Divergence  
**Xue Yang**, Xiaojiang Yang, Jirui Yang, Qi Ming, Wentao Wang, Qi Tian, Junchi Yan  
NeurIPS 2021 (CCF-A)
  12. Rethinking Rotated Object Detection with Gaussian Wasserstein Distance Loss  
**Xue Yang**, Junchi Yan, Qi Ming, Wentao Wang, Xiaopeng Zhang, Qi Tian  
ICML 2021 (CCF-A)
  13. Dense Label Encoding for Boundary Discontinuity Free Rotation Detection  
**Xue Yang**, Liping Hou, Yue Zhou, Wentao Wang, Junchi Yan  
CVPR 2021 (CCF-A)
  14. R<sup>3</sup>Det: Refined Single-Stage Detector with Feature Refinement for Rotating Object  
**Xue Yang**, Junchi Yan, Ziming Feng, Tao He  
AAAI 2021 (CCF-A) (**入选 Paper Digest 评选的最具影响力的 AAAI'21 论文第 1 名**)
  15. Arbitrary-Oriented Object Detection with Circular Smooth Label  
**Xue Yang**, Junchi Yan  
ECCV 2020 (CCF-B, 清华 A)
  16. SCRDet: Towards More Robust Detection for Small, Cluttered and Rotated Objects  
**Xue Yang**, Jirui Yang, Junchi Yan, Yue Zhang, Tengfei Zhang, Zhi Guo, Sun Xian, Kun Fu  
ICCV 2019 (CCF-A)
  17. Automatic Ship Detection in Remote Sensing Images from Google Earth of Complex Scenes Based on Multiscale Rotation Dense Feature Pyramid Networks  
**Xue Yang**, Hao Sun, Kun Fu, Jirui Yang, Xian Sun, Menglong Yan, Zhi Guo  
Remote Sensing, 2018 (**ESI 高被引论文**)
  18. AlphaRotate: A Rotation Detection Benchmark using TensorFlow  
**Xue Yang**, Yue Zhou, Junchi Yan  
ICASSP, 2024 (CCF-B)
  19. Learning Modulated Loss for Rotated Object Detection

Wen Qian, **Xue Yang**, Silong Peng, Junchi Yan, Yue Guo

AAAI 2021 (CCF-A) (入选 **Paper Digest** 评选的最具影响力的 **AAAI'21** 论文第 10 名)

20. RSDet++: Point-based Modulated Loss for More Accurate Rotated Object Detection

Wen Qian, **Xue Yang**, Silong Peng, Junchi Yan, Xiujuan Zhang

TCSVT 2022 (CCF-B)

21. Task Interleaving and Orientation Estimation for High-Precision Oriented Object Detection in Aerial Images

Qi Ming, Lingjuan Miao, Zhiqiang Zhou, Junjie Song, Yunpeng Dong, **Xue Yang**

ISPRS 2023 (**ESI 高被引论文**)

#### 通用目标检测/实例分割

22. PatchDCT: Patch Refinement for High Quality Instance Segmentation

Qinrou Wen, Jirui Yang, **Xue Yang**, Kewei Liang

ICLR 2023 (清华 A)

23. Rethinking Classification and Localization for Cascade R-CNN

Ang Li, **Xue Yang**, Chongyang Zhang

BMVC 2019 (CCF-C)

#### 文字检测与识别

24. Self-supervised Implicit Glyph Attention for Text Recognition

Tongkun Guan, Chaochen Gu, Jingzheng Tu, **Xue Yang**, Qi Feng, Yudi Zhao, Wei Shen

CVPR 2023 (CCF-A)

25. Self-supervised Character-to-Character Distillation for Text Recognition

Tongkun Guan, Wei Shen, **Xue Yang**, Qi Feng, Zekun Jiang, Xiaokang Yang

ICCV 2023 (CCF-A)

#### 底层视觉

26. Dual-path Image Inpainting with Auxiliary GAN Inversion

Wentao Wang, Li Niu, Jianfu Zhang, **Xue Yang**, Liqing Zhang

CVPR 2022 (CCF-A)

27. Parallel Multi-Resolution Fusion Network for Image Inpainting

Wentao Wang, Jianfu Zhang, Li Niu, Haoyu Ling, **Xue Yang**, Liqing Zhang

ICCV 2021 (CCF-A)

## 获奖荣誉

2023	CCF 优秀博士学位论文奖 (原 CCF 优博, 全国共 9 人)
2022/2023	斯坦福大学评选的全球前 2% 顶尖科学家榜单
2023	上海市优秀毕业生
2022	CCF-CV 学术新锐学者 (全国共 3 人)
2022	博士生国家奖学金
2021	上海交通大学“学术之星”提名奖 (全校共 10 个正式奖和 10 个提名奖)
2021	百度奖学金全球 40 强
2021	博士生国家奖学金 (计算机系第一)
2019	吴文俊人工智能博士奖学金 (每届全校共 20 余人)
2019	WAD2019 D <sup>2</sup> -City & BDD100K 检测域自适应赛道挑战赛第一名
2019	DOAI2019 挑战赛 HBB/OBB 赛道第 3/4 名
2016-2019	优秀学生干部, 三好学生, 研究生数学建模比赛二等奖(PMCM, 2017)
2012-2016	优秀学生干部, 三好学生, 优秀毕业生, 国家励志奖学金, 美国大学生数学建模竞赛二等奖(MCM/ICM, 2015), 亚太地区大学生数学建模竞赛二等奖(APMCM, 2016)

## 开源项目

本人在 **GitHub** 上所有的开源项目积累超过了 8,000 多个 star, 一些主要的开源项目如下:

1. **AlphaRotate** (核心人员): A Rotation Detection Benchmark using TensorFlow



Github (1.1k star): <https://github.com/yangxue0827/RotationDetection>

AlphaRotate 是第一个基于 TensorFlow 的开源旋转检测工具箱。

## 2. MMRotate (核心人员): A Rotated Object Detection Benchmark using PyTorch

Github (1.6k star): <https://github.com/open-mmlab/mmrrotate>

MMRotate 是一个基于 PyTorch 的开源旋转检测工具箱。

## 3. DetectionTeamUCAS (核心人员)

Github (2.5k star): <https://github.com/DetectionTeamUCAS>

该账号包含许多由本人重新实现的通用检测和旋转检测算法。

## 4. InternGPT

Github (3.0k star): <https://github.com/OpenGVLab/InternGPT>

InternGPT 是一个开源演示平台，目前支持 DragGAN、ChatGPT、ImageBind、SAM、交互式图像编辑、以及像 GPT-4 这样的多模态对话模型等。

# 技术报告

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2023.06	Valse 2023 无锡, W2: <a href="#">遥感影像解译: 视觉有向目标的高精度检测</a>
2023.03	<a href="#">OpenMMLab 社区开放麦: 弱监督有向目标检测</a>
2022.12	PRCV 2022 博士生论坛: <a href="#">视觉有向目标的高精度检测</a>
2022.07	<a href="#">OpenMMLab 社区开放麦: 视觉有向目标的高精度检测</a>