Xue Yang（杨学）

Institution: Shanghai AI Laboratory   **Position:** Researcher

Email: yangxue0827@126.com (Preferred), yangxue@pjlab.org.cn

Homepage: https://yangxue0827.github.io   **Interests:** CV, Object Detection, Vision-Language Models

Education

2019.09 ~ 2023.07	**Shanghai Jiao Tong University (985/211), Shanghai**	*Ph.D.*: CSE
	MoE-AI Lab, SJTU, Shanghai	*Supervisor*: **Prof. Junchi Yan**
	(First Wu Wenjun AI Honorary Doctorate Class)	
2016.09 ~ 2019.07	**University of Chinese Academy of Sciences, Beijing**	*Master*: SIP
2012.09 ~ 2016.07	**Central South University (985/211), Hunan**	*Bachelor*: 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.
2023.02 ~ 2023.07	**Shanghai AI Laboratory (Intern), OpenGVLab, Shanghai** Working with Prof. Jifeng Dai on vision-language model.
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.
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.
2018.12 ~ 2019.07	**Detection Group, Megvii (Face++) Research (Intern), Beijing** Working with Dr. Gang Yu on detection algorithms.
2017.04 ~ 2017.07	**Samsung Beijing Mobile R&D Center (Intern), Beijing**

Selected Publications

Google Scholar: https://scholar.google.com/citations?user=2xTlvV0AAAAJ&hl=en   **Citation: 5813**

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: 18 first author papers

Conference: CVPR/ICCV/ECCV (7/3/1), NeurIPS/ICML/ICLR (2/1/3), AAAI (2), ACM MM (1)

Journal: TPAMI (2), IJCV (1), SCIENTIA SINICA Informationis (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

1. 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
   CVPR 2024 (CCF-A)
   Homepage: 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
   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
   <u>TPAMI</u> 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
   <u>TPAMI</u> 2022 (CCF-A) **(ESI Highly Cited Papers)**

5. On the Arbitrary-Oriented Object Detection: Classification based Approaches Revisited
   Xue Yang, Junchi Yan
   <u>IJCV</u> 2022 (CCF-A)

6. Point2RBox: Combine Knowledge from Synthetic Visual Patterns for End-to-end Oriented Object Detection with Single Point Supervision
   Yi Yu*, **Xue Yang* (equal contribution)**, Qingyun Li, Feipeng Da†, Junchi Yan†, Jifeng Dai, Yu Qiao
   <u>CVPR</u> 2024 (CCF-A)

7. Visual Oriented Object Detection via Feature Alignment and Gaussian Parameterization
   Xue Yang, Junchi Yan
   <u>SCIENTIA SINICA Informationis</u>, 2023 (CCF-T1)

8. 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
   <u>NeurIPS</u> 2023 (CCF-A)

9. H2RBox: Horizontal Box Annotation is All You Need for Oriented Object Detection
   Xue Yang, Gefan Zhang, Wentong Li, Xuehui Wang, Yue Zhou, Junchi Yan
   <u>ICLR</u> 2023 (Tsinghua-A)

10. The KFIoU Loss for Rotated Object Detection
    Xue Yang, Yue Zhou, Gefan Zhang, Jirui Yang, Wentao Wang, Junchi Yan, Xiaopeng Zhang, Qi Tian
    <u>ICLR</u> 2023 (Tsinghua-A)

11. 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
    <u>ACM MM</u> 2022 (CCF-A, **Oral**)

12. 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
    <u>NeurIPS</u> 2021 (CCF-A)

13. Rethinking Rotated Object Detection with Gaussian Wasserstein Distance Loss
    Xue Yang, Junchi Yan, Qi Ming, Wentao Wang, Xiaopeng Zhang, Qi Tian
    <u>ICML</u> 2021 (CCF-A)

14. Dense Label Encoding for Boundary Discontinuity Free Rotation Detection
    Xue Yang, Liping Hou, Yue Zhou, Wentao Wang, Junchi Yan
    <u>CVPR</u> 2021 (CCF-A)

15. R^3Det: Refined Single-Stage Detector with Feature Refinement for Rotating Object
    Xue Yang, Junchi Yan, Ziming Feng, Tao He
    <u>AAAI</u> 2021 (CCF-A) **(Most Influential AAAI'21 Paper, Top 1, Paper Digest)**

16. Arbitrary-Oriented Object Detection with Circular Smooth Label
    Xue Yang, Junchi Yan
    <u>ECCV</u> 2020 (CCF-B, Tsinghua-A)

17. 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)

18. 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)**

19. AlphaRotate: A Rotation Detection Benchmark using TensorFlow
   Xue Yang, Yue Zhou, Junchi Yan
   ICASSP, 2024 (CCF-B)

20. PointOBB: Learning Oriented Object Detection via Single Point Supervision
   Junwei Luo, **Xue Yang**, Yu Yi, Qingyun Li, Junchi Yan, Yansheng Li
   CVPR 2024 (CCF-A)

21. 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)**

22. 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)

23. Theoretically Achieving Continuous Representation of Oriented Bounding Boxes
   Zikai Xiao, Guoye Yang, **Xue Yang**, Taijiang Mu, Junchi Yan, Shimin Hu
   CVPR 2024 (CCF-A)

24. 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

25. PatchDCT: Patch Refinement for High Quality Instance Segmentation
   Qinrou Wen, Jirui Yang, **Xue Yang**, Kewei Liang
   ICLR 2023 (Tsinghua-A)

26. Rethinking Classification and Localization for Cascade R-CNN
   Ang Li, **Xue Yang**, Chongyang Zhang
   BMVC 2019 (CCF-C)

Scene Text Detection and Recognition

27. 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)

28. 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

29. Dual-path Image Inpainting with Auxiliary GAN Inversion
   Wentao Wang, Li Niu, Jianfu Zhang, **Xue Yang**, Liqing Zhang
   CVPR 2022 (CCF-A)

30. 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

2024	SJTU Outstanding Doctoral Dissertation Award (fifteen winners in SJTU)
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	Doctoral National Scholarship (Top 1 in CSE)
2019	Wu Wenjun Artificial Intelligence PhD Scholarship
2019	1st Place in WAD2019 Challenge on the D^2-City & BDD100K Detection Domain Adaption track
2019	3rd/4th 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

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

1. **AlphaRotate**

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

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

2. **MMRotate**

   Github (1.7k star): https://github.com/open-mmlab/mmrotate

   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

2023.06	W2: Remote Sensing Image Interpretation Valse 2023, Wuxi: High-Precision Detection of Visual Oriented Object
2023.03	OpenMMLab Community Forum: Weakly Supervised Oriented Object Detection
2022.12	PRCV 2022 Doctoral Forum: High-Precision Detection of Visual Oriented Object
2022.07	OpenMMLab Community Forum: High-Precision Detection of Visual Oriented Object

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

联系邮箱：yangxue0827@126.com, 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/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**：严骏驰教授
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。
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。
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。
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。
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。
2017.04 ~ 2017.07	中国三星电子研究院（实习），北京

学术成果

谷歌学术：https://scholar.google.com/citations?user=2xTlvV0AAAAJ&hl=zh-CN　　**引用量：5813**

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 24 篇**，其中**第一作者论文 16 篇**

会议：CVPR/ICCV/ECCV (7/3/1), NeurIPS/ICML/ICLR (2/1/3), AAAI (2), ACM MM (1)

期刊：TPAMI (2), IJCV (1),《中国科学：信息科学》(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

   CVPR 2024 (CCF-A)

   主页：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

<u>TPAMI</u> 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

   <u>TPAMI</u> 2022 (CCF-A) **(ESI 高被引论文)**

5. On the Arbitrary-Oriented Object Detection: Classification based Approaches Revisited

   Xue Yang, Junchi Yan

   <u>IJCV</u> 2022 (CCF-A)

6. Point2RBox: Combine Knowledge from Synthetic Visual Patterns for End-to-end Oriented Object Detection with Single Point Supervision

   Yi Yu*, **Xue Yang*** (共同一作), Qingyun Li, Feipeng Da†, Junchi Yan†, Jifeng Dai, Yu Qiao

   <u>CVPR</u> 2024 (CCF-A)

7. 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

   <u>《中国科学：信息科学》</u>，2023 (CCF-T1)

8. 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

   <u>NeurIPS</u> 2023 (CCF-A)

9. H2RBox: Horizontal Box Annotation is All You Need for Oriented Object Detection

   Xue Yang, Gefan Zhang, Wentong Li, Xuehui Wang, Yue Zhou, Junchi Yan

   <u>ICLR</u> 2023 (清华 A)

10. The KFIoU Loss for Rotated Object Detection

    Xue Yang, Yue Zhou, Gefan Zhang, Jirui Yang, Wentao Wang, Junchi Yan, Xiaopeng Zhang, Qi Tian

    <u>ICLR</u> 2023 (清华 A)

11. 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

    <u>ACM MM</u> 2022 (CCF-A, **Oral**)

12. 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

    <u>NeurIPS</u> 2021 (CCF-A)

13. Rethinking Rotated Object Detection with Gaussian Wasserstein Distance Loss

    Xue Yang, Junchi Yan, Qi Ming, Wentao Wang, Xiaopeng Zhang, Qi Tian

    <u>ICML</u> 2021 (CCF-A)

14. Dense Label Encoding for Boundary Discontinuity Free Rotation Detection

    Xue Yang, Liping Hou, Yue Zhou, Wentao Wang, Junchi Yan

    <u>CVPR</u> 2021 (CCF-A)

15. R^{3}Det: Refined Single-Stage Detector with Feature Refinement for Rotating Object

    Xue Yang, Junchi Yan, Ziming Feng, Tao He

    <u>AAAI</u> 2021 (CCF-A) **(入选 Paper Digest 评选的最具影响力的 AAAI'21 论文第 1 名)**

16. Arbitrary-Oriented Object Detection with Circular Smooth Label

    Xue Yang, Junchi Yan

    <u>ECCV</u> 2020 (CCF-B, 清华 A)

17. 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

    <u>ICCV</u> 2019 (CCF-A)

18. 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)**

19. AlphaRotate: A Rotation Detection Benchmark using TensorFlow

    Xue Yang, Yue Zhou, Junchi Yan

    ICASSP**,** 2024 (CCF-B)

20. PointOBB: Learning Oriented Object Detection via Single Point Supervision

    Junwei Luo, **Xue Yang**, Yu Yi, Qingyun Li, Junchi Yan, Yansheng Li

    CVPR 2024 (CCF-A)

21. 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)**

22. 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)

23. Theoretically Achieving Continuous Representation of Oriented Bounding Boxes

    Zikai Xiao, Guoye Yang, **Xue Yang**, Taijiang Mu, Junchi Yan, Shimin Hu

    CVPR 2024 (CCF-A)

24. 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

25. PatchDCT: Patch Refinement for High Quality Instance Segmentation

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

    ICLR 2023 (清华 A)

26. 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

27. 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)

28. 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

29. Dual-path Image Inpainting with Auxiliary GAN Inversion

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

    CVPR 2022 (CCF-A)

30. 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

2024	上海交通大学优秀博士学位论文（全校共 15 人，工学 8 人）
2023	CCF 优秀博士学位论文激励计划（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	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^2-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)**

    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)**

    Github (1.7k star): https://github.com/open-mmlab/mmrotate

    MMRotate 是一个基于 PyTorch 的开源旋转检测工具箱。

3. **JDet (主要人员)**

    Github (163 star): https://github.com/Jittor/JDet

    JDet 是一个基于国产深度学习框架 Jittor 的开源旋转检测工具箱。

4. **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。

5. **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

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