

阮宇迪

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教育及工作经历:

2020.09 – 2026.06	重庆交通大学	人工智能 (本科 GPA:4.08/5)	重庆
相关课程: 深度学习, 机器学习, 计算机视觉等			
2023.07 – 2023.09	上海全景医疗影像中心	深度学习实习生	上海
相关工作: 图卷积神经网络, 多模态等			
2024.10 – 至今	Hedra (美国)	深度学习实习生	加利福尼亚州
相关工作: 大模型加速、视频生成、数据清洗等			
2024.08 – 至今	浙江山主机器人	CTO 助理	浙江
相关工作: 计算机视觉、强化学习、机器人操作系统等			

项目经历:

2023.05 – 2024.05	城市列车视觉-激光-IMU-GNSS 多源融合导航系统	负责人
相关技术: ROS、CUDA、C++等		
2024.05 – 2025.05	幻视-3D 医疗影像解析系统	负责人
相关技术: DL、QT、Python、Kubernetes 等		
2024.02 – 至今	暗光图像增强系统	负责人
相关技术: DL、QT、ONNX 等		

科研成果:

发表论文:

- [1] Yudi Ruan, Hao Ma, Weikai Li, Xiao Wang (2024). ECAFormer: Low-light Image Enhancement using Cross Attention. Pattern Recognition.
- [2] Yudi Ruan, Di Wang, Yijing Yuan, Shixin Jiang, Xianyi Yang (2024). SKPNet: Snake KAN Perceive Bridge Cracks through Semantic Segmentation. Intelligent&Robotics.
- [3] Yudi Ruan, Ling Zhang, Liling Peng, Weikai Li, Xin Gao (2024).Identification of Major Depressive Disorder Using Multiple Functional Connection Pattern. Biomedical Signal Processing and Control.

参研论文:

- [1] Huaiqu Feng, Te Xi, Yudi Ruan, Dunhong Yang, Yulei Pan, Rongkai Shi, Bo Chen, Yongwei Wang1, Jun Wang (2024). Contrastive Clustering-driven Topological Organization Unveils Characterization of Hybrid-rice with In-Field for Variety Purification. Expert Systems With Applications.
- [2] Rui Zhou, Chenhao Sun, Mingxiang Sun, Yudi Ruan, Weikai Li, Xin Gao (2024). Altered intra- and inter-network connectivity in autism spectrum disorder. Aging.
- [3] Wenhao Zhou, Mingxiang Sun, Xiaowen Xu, Yudi Ruan, Chenhao Sun, Weikai Li, Xin Gao (2024). Multipattern graph convolutional network-based autism spectrum disorder identification. Cerebral Cortex.
- [4] Sifu Zeng1, Jie Yang, Wang Luo and Yudi Ruan (2023). Few-shot segmentation with duplex network and attention augmented module. Frontiers in Neurorobotics.
- [5] Weikai Li, Hongfeng Wei, Yanlai Wu, Jie Yang, Yudi Ruan, Yuan Li, and Ying Tang (2024). TIDE: Test-Time Few-Shot Object Detection. IEEE Transactions on Systems, Man and Cybernetics: Systems.
- [6] Jie Yang, Xiaowen Xu, Mingxiang Sun, Yudi Ruan, Chenhao Sun, Weikai Li, Xin Gao (2023). Towards an accurate autism spectrum disorder diagnosis: multiple connectome views from fMRI data. Cerebral Cortex.

学科竞赛类获奖:

2024.01	美国大学生数学建模大赛	H 奖
2024.08	睿抗机器人开发者大赛 (RAICOM) 全国总决赛	全国一等奖
2024.10	全国高校商业精英挑战赛创新创业竞赛创业计划赛道全国总决赛	全国一等奖

2024.08	第二十六届中国机器人及人工智能大赛全国总决赛	全国二等奖
2024.07	"航大数据杯"第八届全国高校智能交通创新与创业大赛	全国三等奖
2023.11	全国大学生数学建模竞赛	重庆市一等奖
2023.08	第十八届全国大学生智能汽车竞赛 (baidu)	西部赛区二等奖
2023.09	第十八届全国大学生智能汽车竞赛 (iflytek)	西部赛区二等奖
2024.08	中国国际大学生创新大赛	重庆赛区银奖
2024.05	第十一届“大唐杯”全国大学生新一代信息通信技术大赛	重庆市二等奖
2023.05	第十六届中国大学生计算机设计大赛	重庆市二等奖
2023.07	第十二届“中国软件杯”	重庆市三等奖

荣誉及获奖:

2023 国家本科奖学金	2024 国家励志奖学金
2023 校三好学生	2023 校科创先锋
2023 校学习标兵	2024 校三好学生

Yudi Ruan

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Education and Work Experience:

2020. 09 – 2026. 06	Chongqing Jiaotong University	Artificial Intelligence(GPA:4.08/5)	Chongqing
Relevant Courses: Deep Learning, Machine Learning, Computer Vision, etc.			
2023. 07 – 2023. 09	Shanghai Panorama Medical Imaging Center	Deep Learning Intern	Shanghai
Relevant Work: Graph Convolutional Networks, Multimodal Learning, etc.			
2024. 10 – current	Hedra(US)	Deep Learning Intern	California
Relevant Work: Large Model Acceleration, Video Generation, Data Cleaning, etc.			
2024. 08 – current	Zhejinag Starlord Robot	Chairman's Secretary	Zhejinag
Relevant Work: Computer Vision, Reinforcement Learning, Robot Operating Systems, etc.			

Project Experience:

2023. 05 – 2024.05	Train Multi-Source Fusion Perception System	Leader
Relevant Technologies: ROS, CUDA, C++, etc.		
2024. 05 – 2025.05	Huanshi: 3D Medical Imaging Data Analysis Platform	Leader
Relevant Technologies: DL, QT, Python, Kubernetes, etc.		
2024. 02 – current	Image Enhancement and Analysis System	Leader
Relevant Technologies: DL, QT, ONNX, etc.		

Research Achievements:

Published Papers:

- [1] **Yudi Ruan**, Hao Ma, Weikai Li, Xiao Wang (2024). ECAFormer: Low-light Image Enhancement using Cross Attention. Pattern Recognition.
- [2] **Yudi Ruan**, Di Wang, Yijing Yuan, Shixin Jiang, Xianyi Yang (2024). SKPNet: Snake KAN Perceive Bridge Cracks through Semantic Segmentation. Intelligent&Robotics.
- [3] **Yudi Ruan**, Ling Zhang, Liling Peng, Weikai Li, Xin Gao (2024).Identification of Major Depressive Disorder Using Multiple Functional Connection Pattern. Biomedical Signal Processing and Control.

Co-authored Papers:

- [1] Huaiqu Feng, Te Xi, **Yudi Ruan**, Dunhong Yang, Yulei Pan, Rongkai Shi, Bo Chen, Yongwei Wang1, Jun Wang (2024). Contrastive Clustering-driven Topological Organization Unveils Characterization of Hybrid-rice with In-Field for Variety Purification. Expert Systems With Applications.
- [2] Rui Zhou, Chenhao Sun, Mingxiang Sun, **Yudi Ruan**, Weikai Li, Xin Gao (2024). Altered intra- and inter-network connectivity in autism spectrum disorder. Aging.
- [3] Wenhao Zhou, Mingxiang Sun, Xiaowen Xu, **Yudi Ruan**, Chenhao Sun, Weikai Li, Xin Gao (2024). Multipattern graph convolutional network-based autism spectrum disorder identification. Cerebral Cortex.
- [4] Sifu Zeng1, Jie Yang, Wang Luo and **Yudi Ruan** (2023). Few-shot segmentation with duplex network and attention augmented module. Frontiers in Neurorobotics.
- [5] Weikai Li, Hongfeng Wei, Yanlai Wu, Jie Yang, **Yudi Ruan**, Yuan Li, and Ying Tang (2024). TIDE: Test-Time Few-Shot Object Detection. IEEE Transactions on Systems, Man and Cybernetics: Systems.
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Awards in Academic Competitions:

2024.01	Mathematical Contest in Modeling / Interdisciplinary Contest in Modeling (MCM/ICM)	Honorable Mention
2024.08	RAICOM Robotics Developer Competition (RAICOM) CAIR Engineering National Finals	National First Prize
2024.10	National College Business Elite Challenge National Finals	National First Prize

2024.08	The 26th China Robotics and Artificial Intelligence Competition National Finals	National Second Prize
2024.07	National College Intelligent Transportation Innovation and Entrepreneurship Competition	National Third Prize
2023.11	National College Student Mathematical Modeling Competition	Provincial First Prize
2023.08	The 18th National College Student Intelligent Vehicle Competition, Baidu Track	Provincial Second Prize
2023.09	The 18th National College Student Intelligent Vehicle Competition, iFlytek Track	Provincial Second Prize
2024.08	China International University Student Innovation Competition	Provincial Second Prize
2024.05	National College Student New Generation Information and Communication Technology Competition	Provincial Second Prize
2023.05	The 16th China College Students Computer Design Competition	Provincial Second Prize
2023.07	China Software Cup University Student Software Design Competition (2023)	Provincial Third Prize

Honors and Awards:

2023 National Undergraduate Scholarship	2024 National Inspirational Scholarship
2023 Outstanding Student	2023 Advanced Individual in Technology
2023 Model Student	2024 Outstanding Student