## YANG ZHOU

EDUCATION	
New York University, Ph.D. in Electrical Engineering	Aug. 2019 – Present
ShanghaiTech University, B.E. in Computer Science and Techno PUBLICATION	logy Sep. 2015 – Jul. 2019
Yang Zhou, Jiuhong Xiao, Yue Zhou, Giuseppe Loianno, " <b>Multi-ro</b> <b>Neural Networks</b> ", IEEE Robotics and Automation Letters, vol. 7, Rundong Ge <sup>*</sup> , Moonyoung Lee <sup>*</sup> , Vivek Radhakrishnan, Yang Zhou " <b>Vision-based Multi-Object Detection and Tracking for Micro A</b> Conference on Intelligent Robots and Systems Can Cui, Yunsheng Ma, Xu Cao, Wenqian Ye, Yang Zhou, Kaizhao Yang, Kuei-Da Liao, Tianren Gao, Erlong Li, Kun Tang, Zhipeng Ca Jianguo Cao, Ziran Wang, Chao Zheng, "A Survey on Multimoda <b>Driving</b> ", Proceedings of the IEEE/CVF Winter Conference on Ap Workshops, 2024, pp. 958-979 Yang Zhou, Rundong Ge, Gary Mcgrath, Giuseppe Loianno, " <b>FEN</b>	bot Collaborative Perception with Graph no. 2, pp. 22892296, 2022 I, Guanrui Li, Giuseppe Loianno, erial Vehicles", 2022 IEEE/RSJ International D Liang, Jintai Chen, Juanwu Lu, Zichong ao, Tong Zhou, Ao Liu, Xinrui Yan, Shuqi Mei, al Large Language Models for Autonomous plications of Computer Vision (WACV) et: Fast Real-time Semantic Edge Detection
<b>Network</b> ", IEEE International Symposium on Safety, Security, and Mattia Secchiero, Nishanth Bobbili, Yang Zhou, Giuseppe Loianno Autonomous Quadratar Landing", 2024 International Conference	Rescue Robotics, 2020, pp. 246-251 b, <b>"Visual Environment Assessment for Safe</b>
Yang Zhou, Giuseppe Lojanno, "PENet: A Joint Panoptic Edge D	Detection Network" arXiv preprint
arXiv:2303.08848 Yang Zhou, "Extrinsic Calibration Algorithm between a Stereo Visual System and a 3D LiDAR", Carnegie Mellon University Robotics Institute Summer Scholars Working Papers Journal, 2018	
RESEARCH EXPERIENCE	
<ul> <li>Research Interest: Multi-robot Perception, Scene Understandin</li> <li>Agile Robotics and Perception Lab, New York University</li> <li>Research Assistant, supervised by Prof. Giuseppe Loianno <ul> <li>Proposed novel real-time semantic edge detection and par</li> <li>Proposed multi-robot collaborative perception framework w</li> <li>Proposed multi-robot collaborative perception dataset in th</li> <li>Proposed semantic-guided UAV autonomous landing syste</li> <li>Proposed multi-robot relative localization with learning-bas</li> <li>Developed real-time stereo visual inertial state estimation of</li> <li>Developed ROS2 autonomy pipeline including control and</li> </ul> </li> <li>Robot Perception Lab, Carnegie Mellon University</li> <li>Undergraduate Research Intern, supervised by Prof. Michael Kaes</li> <li>Proposed novel intrinsic and extrinsic calibration algorithm</li> </ul>	g, SLAM, Robotics, Computer Vision Brooklyn, USA Aug. 2019 – Present noptic edge detection network. vith graph neural networks. e wild. em. ed detection and filter-based tracking. onboard system running at 90Hz. planning modules. Pittsburgh, USA ss Jun. 2018 – Dec. 2018 between stereo camera and 3D LiDAR. Shanghai, China
Bachelor Thesis, advised by Prof. Laurent Kneip and Prof. Michae	<i>I Kaess</i> Oct. 2018 – June. 2019
Proposed novel pipeline of Stereo Event-based visual mer     WORKING EXPERIENCE	tial Odometry.
Microsoft Research, Microsoft Research Intern	
<ul> <li>Developed perception-aware planning system in Hololens</li> <li>Tencent United Security Laboratory, Tencent Inc.</li> <li>Security Researcher</li> <li>Analyzed perception system of autonomous driving vehicle</li> </ul>	team. Shanghai, China Aug. 2017 – Dec. 2017
<ul> <li>Proposed adversarial attack method to evaluate the robust</li> <li>PROJECT &amp; LEADERSHIP EXPERIENCE</li> </ul>	in secondy research.
ShanghaiTech RoboMaster Team	Shanghai, China
• Led a team of 35 to build 6 robots with percention, planning	UCI. 2017 - May. 2018
ShanghaiTech Undergraduate RoboCup Rescue Team	y, and dedision-making systems Shandhai China
Leader of Computer Vision group. Co-founder	Feb. 2017 – Apr. 2018
<ul> <li>Developed LiDAR and RGB-D based SLAM system and m</li> </ul>	otion detection system.
SKILLS Languages: C++, Python, Rust Tools: ROS 1/2, PyTorch, Eigen, OpenCV, OpenGV	