

Yizhou Chen

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<https://github.com/JINXER000>

EDUCATION	Nanjing University of Aeronautics and Astronautics (NUAA)	Nanjing, China
	<ul style="list-style-type: none">B.S. in AutomationGPA: 90/100, ranking: 10/180	09/2015 – 06/2019
	The Chinese University of Hong Kong (CUHK)	Hong Kong, China
	<ul style="list-style-type: none">Ph.D candidate in Mechanical and Automation Engineering	11/2019 – Present
PUBLICATION	<ul style="list-style-type: none">Chen Yizhou, Lai Shupeng, Cui Jinqiang, Wang Biao, and Ben M. Chen, "GPU-accelerated Incremental Euclidean Distance Fields for Online Motion Planning of Mobile Robots." <i>IEEE Robotics and Automation Letters</i> (2022), presented in IROS 2022.Chen Yizhou, Lai Shupeng, Wang Biao, Lin Feng, and Ben M. Chen "A GPU Mapping System for Real-time Robot Motion Planning." Accepted by RCAR 2021.Wang Xinyi, Xi Lele, Chen Yizhou, Lai Shupeng, Lin Feng, and Ben M. Chen, "Decentralized MPC-Based Trajectory Generation for Multiple Quadrotors in Cluttered Environments." <i>Guidance, Navigation and Control</i> 1.02 (2021): 2150007.Chen Yizhou, Wang Xinyi, Wang Ruoyu, and Ben M. Chen, "Sampling-based Path Planning under Temporal Logic Constraints with Real-time Adaptation." Accepted by ICRA 2023.	
ACADEMIC PROJECT	InoAIR Program	01/2021 – Present
	<ul style="list-style-type: none">Developed a reliable and automated aerial inspection systemConducted research on task and motion planning in scene reconstruction	
INTERNSHIP	Roadefend Vision Technology (Shanghai) Co., Ltd.	Shanghai, China
	<ul style="list-style-type: none">Algorithm Engineer InternWork on latest image segmentation algorithms, and improve self-driving system	07/2018 – 09/2018
	Temasek Lab in NUS	
	<ul style="list-style-type: none">Associate ScientistWork on mapping algorithm of UAV	01/2019-- 03/2019
HONORS	Postgraduate Scholarship	08/2020
	China National Scholarship (Undergraduate)	10/2018
	Third Prize, DJI RoboMaster National Robotics Competition (China)	05/2018
	First Prize, Mechanical Innovation Design Competition (China)	04/2018
	Second Prize, National Undergraduate Electronics Design Contest (China)	07/2017
	First Prize, TI Cup – Embedded System Design Contest	04/2017
LEADERSHIP	Group leader, Fundamental System group at USRL	02/2020 – Present
SKILLS	CUDA C, C++, Python, MATLAB	