Jiawei Fu

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Education

University of California San Diego *La Jolla, CA, USA*
Ph.D. in Computer Science and Engineering *Sept 2024 – present*
- Working on building data collection systems for diverse robots and enabling efficient learning for robot manipulation

ETH Zurich *Zurich, Switzerland*
M.Sc. in Robotics, Systems and Control *Sept 2020 – Feb 2024*
- GPA: 5.76/6.0
- Awards: ETH Exchange Scholarship

EPFL *Laussane, Switzerland*
Exchange Student in Computer Science *Dec 2022 – Feb 2024*
- GPA: 6.0/6.0

Tsinghua University *Beijing, China*
B.Eng. in Mechanical Engineering (Elite Program) *Sept 2016 – June 2020*
- GPA: 3.82/4.0, ranked **1st** in the elite program
- Awards:Outstanding Graduate in Beijing, Excellent Graduate in Tsinghua University, XCMG Scholarship, Energy and Science Scholarship, National Scholarship

National University of Singapore *Singapore*
Exchange Student in Mechanical Engineering *Jan 2019 – May 2019*
- GPA: 5.0/5.0

Work

Research Assistant *Laussane, Switzerland*
EPFL *Mar 2024 – May 2024*
- Supervisor: Prof. Amir Zamir
- Worked on co-design of visual sensor systems for indoor navigation
- Published on **ECCV2024**: *How Far Can a 1-Pixel Camera Go? Solving Vision Tasks Using Photoreceptors and Computationally Designed Visual Morphology*

Research Intern *Saarbrücken, Germany*
MPI-INF *Apr 2022 – Sept 2022*
- Supervisor: Prof. Dengxin Dai
- Built a multi-sensor system for autonomous driving, containing cameras, LiDARs, GPS, and event cameras
- Implemented a data collection pipeline including synchronization, calibration, and post-processing

Research Intern *Zurich, Switzerland*
University of Zurich *Sept 2021 – Mar 2022*
- Supervisor: Prof. Davide Scaramuzza
- Developed a sensorimotor policy from visual inputs for autonomous drone racing
- Published on **IROS2023**: *Learning deep sensorimotor policies for vision-based autonomous drone racing*

Publications

LodeStar: Long-horizon Dexterity via Synthetic Data Augmentation from Human Demonstrations **CORL2025**

Weikang Wan*, ***Jiawei Fu****, Xiaodi Yuan, Yifeng Zhu, Hao Su

How Far Can a 1-Pixel Camera Go? Solving Vision Tasks Using Photoreceptors and Computationally Designed Visual Morphology **ECCV2024**

Andrei Atanov*, ***Jiawei Fu****, Rishubh Singh*, Isabella Yu, Andrew Spielberg, Amir Zamir

Learning deep sensorimotor policies for vision-based autonomous drone racing **IROS2023**

Jiawei Fu, Yunlong Song, Yan Wu, Fisher Yu, Davide Scaramuzza

Skills

Programming: Proficient with Python, PyTorch, C++, Docker, and Git

Robotics: Skilled in mechanical design, circuit design, and multi-device synchronization

Languages: English (fluent, TOEFL: 107/120), Mandarin (native)