# Zhenjun Zhao

The Chinese University of Hong Kong (CUHK)
Shatin, NT, Hong Kong SAR
(+852) 92389058 (Cell)
(+86) 18758181989 (Cell)
ericzzj89@gmail.com
https://ericzzj1989.github.io/

#### **Education**

## 2019.8 – now The Chinese University of Hong Kong

**Hong Kong SAR** 

PhD at Department of Mechanical and Automation Engineering

 Research interests include robust pose estimation, feature detection/description/matching and visual localization in challenging environments for drones and vehicles.

#### 2012.9 – 2015.4 Nanjing University of Aeronautics and Astronautics

Nanjing, CHN

Master at College of Automation Engineering

- Master of Science: Navigation, Guidance and Control granted in April 2015.
- GPA: 3.76/4.00; Rank: 2/38.

#### 2008.9 – 2012.6 Nanjing University of Aeronautics and Astronautics

Nanjing, CHN

- Bachelor of Engineering: Automation Engineering granted in June 2012.
- GPA: 3.70/4.00; Rank: 6/155.

### **Internship Experience**

### **2020.6 – 2020.11 Orbbec Technologies**

Shenzhen, CHN

3D Vision Department

- Research on visual-inertial odometry initialization.
- Develop light-weight visual-inertial odometry initialization and optimization in mobile devices.

### **2021.3 – 2022.12 Peng Cheng Laboratory**

Shenzhen, CHN

Mathematics and Theory Department

- Research on pose estimation and visual localization in underwater environments.
- Research on local feature extraction in underwater environments.

### **Professional Experience**

2018.11 – 2019.7 The Chinese University of Hong Kong

**Hong Kong SAR** 

Department of Mechanical and Automation Engineering

- Research on visual-inertial odometry for unmanned aerial vehicle.
- Integrated PX4 and MSF to build a loosely-coupled visual-inertial odometry for unmanned aerial vehicle.

### 2015.4-2016.6 Huawei Technologies

Hangzhou, CHN

Software Engineer, the Security Gateway Development Division

- Develop and maintain virtual system, intelligent routing, mail filtering and north direction in Huawei's first visualized software firewall (VFW).
- Develop and maintain virtual machine migration and policy optimization in Huawei's visualized network security product (NGFW).
- Lead the project of Huawei's first firewall simulation tool targeting at corporate users, trainees and examinees.

#### **Awards**

PhD Scholarship, CUHK, 2019-2023 Huawei Annual Research Director Award (top 2 at Hangzhou Branch), Huawei, 2016 Graduate Prize Fellowship, NUAA, 2012-2015 Undergraduate Academic Scholarship, NUAA, 2008-2012

#### **Publications:**

Zhenjun Zhao and Ben M. Chen, Benchmark for Initialization of VIO, Chinese Control Conference (CCC), 2023.

Junjie Wen, Jinqiang Cui, **Zhenjun Zhao**, Ruixin Yan, Zhi Gao, Lihua Dou, Ben M. Chen, SyreaNet: A Physically Guided Underwater Image Enhancement Framework Integrating Synthetic and Real Images, *International Conference on Robotics and Automation (ICRA)*, 2023.

Haoang Li, Ji Zhao, Jean-Charles Bazin, Pyojin Kim, Kyungdon Joo, **Zhenjun Zhao**, Yun-Hui, Liu, Hong Kong World: Leveraging Structural Regularity for Line-based SLAM, *Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, 2023.

**Zhenjun Zhao**, Yu Zhai, Ben M. Chen, Peidong Liu, BALF: Simple and Efficient Blur Aware Local Feature Detector, *arXiv* preprint arXiv:2211.14731 (2022).

**Zhenjun Zhao**, Pose Graph Registration for Visual Localization, *International Conference on Robotics and Automation (ICRA)*, 2024 (Under review).