JIAZE LI

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SKILLS

• **Programming**: Python, C/C++, Rust (learning)

• Tools: Git, Docker, Pytorch, ONNX, OpenCV, ROS, Eigen, Ceres

• Languages: Chinese, English: IELTS 6.5

EDUCATION

Heidelberg University

Heidelberg, Germany

Apr 2024 – Present

M.Sc. in Scientific Computing

Shanghai, China

B.Eng. in Data Science and Big Data Technology Sep 2018 – Jul 2022

• **GPA**: 87.69 / 100.00

Tongji University

• Courses: Data Structures and Algorithm Design, Machine Learning, Parallel Programming, Computer Vision

• Thesis: Parking Lot Localization System Based on Visual Inertial Odometry (VIO) and Visual Localization

• Activities: Association of Magic Lover (Club)

WORK EXPERIENCE

Qiyuan Lab Beijing, China

Algorithm Engineer

Aug 2022 - Mar 2024

- Semantic Visual Localization: Reduce map storage by using semantic maps like OpenStreetMap and DEM for visual Localization:
- SE(2) Equivariant Visual Localization: Development of image matching algorithms robust to image rotation and scale changes for visual localization on UAV platforms at different heights and orientations;
- LRF-VIO: State estimation using a single-point laser rangefinder, camera, and IMU to address scale degradation of the VIO.

Software Development Center, Bank of Communications

Shanghai, China

Intern at the Credit Risk Department

Jun 2021 – Jul 2021

- Participated in the construction of the intelligent demand allocation system;
- · Involving crawlers and machine learning.

HONORS AND AWARDS

The Second-class Prize in the Undergraduate Group, China Undergraduate Mathematical Contest in Modelling, Shanghai Division

Shanghai, China

Oct 2021

RESEARCH & PUBLICATIONS

Visual Inertial SLAM with Deep Learning-enabled Loop Closure for Challenging Scenes

Published on The 6th CAA International Conference on Vehicular Control and Intelligence

Oct 2021

PROJECTS

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Tongji University

Nov 2021 – Apr 2022

- Loosely coupled backend for OpenVINS, which uses NetVLAD for loop detection, SuperPoint and SuperGlue for relocalization, and Ceres for pose graph optimisation;
- Running in real-time on mobile GPUs, it effectively improves loop detection and relocalization accuracy in poor lighting conditions.