

Jie Yuan

<https://penguinflys.github.io/penguinflys/about>

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EDUCATION

- **Leibniz Universität Hannover** Hanover, Germany
Master of Science in Computer Science Oct. 2017 – Feb. 2021
- **China University of Mining and Technology** Xuzhou, China
Bachelor of Engineering in geodesy and geoinformatics; GPA: 3.57 (9/157) Oct. 2013 – July. 2017

EXPERIENCE

- **Zhonghong Geodesy Technology Research Institute** Changzhou, China
surveyor Jan. 2017 - July. 2017
 - **Survey Plan Design:** Estimation of surveying accuracy and feasibility & Design of surveying schedule
 - **Result Adjustment:** Adjustment of the GPS antenna collected data & Surveying result report.
- **IKG in Leibniz University** Hanover, Germany
GUI Programmer for HD Mapping system (part-time) Feb. 2018 - Sep. 2018
 - **GUI Design:** Design multiple interfaces under tabs for different threads with Qt5 library.
 - **Multi Threading:** Configuration of front end and back-end process in multiple tabs.
 - **Sensor Data IO:** Automatic data transferring from sensors to HD mapping system.
 - **Scene Visualization:** Visualization of a fused 3D scene of point cloud and binocular camera.
 - **Algorithm Adaptation:** Adapt some new research algorithms to the mapping system.
- **IKG in Leibniz University** Hanover, Germany
Labor Mentor (part-time) Apr. 2018 - Apr. 2019
 - **Labor Supervision:** Help the students on a labor on poles detection with point cloud data.
 - **Result Examination:** Check the result of labor and homework
- **Rainbow Business Solution GmbH.** Hanover, Germany
Office Worker/Reception (part-time) Oct. 2018 - Jan. 2020
 - **Office Works:** Run the daily business by calling, answering and arranging meetings, organizing files, paying bills, fixing computers, routers and printers.
- **IPI in Leibniz University** Hanover, Germany
Research Assistant (part-time) May. 2019 - Feb. 2020

PROJECTS

- **Digital Earth based on WMS:** Creating an Digital Earth model based on icosahedron grid technique visualizing multiple thematic maps via WMS in large scale.
- **LEGO Courier Student Toy Project:** Apply SLAM techniques on LEGO Robot in a scenario of a delivering task.
- **Dynamic Landmark based Visual Odometry(SFM):** Motion reconstruction with feature points matching in RANSAC framework on a stereo camera.
- **Object Tracking and Motion Prediction via KFs.:** Preceding cars motion prediction via Kalman filterings
- **Real-time HD Map Calibration with Multiple Lidars:** Realtime calibration of LIDAR data for accurate mapping with multiple bi-linear interpolation.
- **Trajectory Estimation with GPS + IMU based on Set-membership Kalman Filtering:** Research project on sensor fusion with set-membership Kalman filtering
- **PanUrban Dataset:** Developing ISPRS 2D semantic dataset to panoptic level- Panurban dataset
- **Panoptic Segmentation in urban Area:** Developing a panoptic segmentation method to segment aerial images in urban area.

PROGRAMMING SKILLS

- **Languages:** C++, Python, etc.
- **Tools:** CMAKE, ROS, PCL, OpenCV, OpenGL, Pytorch