Jie Yuan

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

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EDUCATION

- **Leibiniz Universität Hannover** — Hanover, Germany
  Master of Science in Computer Science; GPA: 3.3/4.0 — Oct. 2017 – Feb. 2021

- **China University of Mining and Technology** — Xuzhou, China
  Bachelor of Engineering in geodesy and geoinformatics; GPA: 3.57/4.0 (6/157) — 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 Lebiniz 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 Assitant (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.

SKILLS

- **Programming Languages**: C++, Python, Matlab, etc.

- **Tools**: CMAKE, ROS, PCL, OpenCV, OpenGL, Pytorch, MS Office, ArcGIS

- **Speaking Languages**: English(C1), German(B2-C1), Chinese(C2).