Jie Yuan
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EDUCATION

- **Leibniz 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) — *Sept. 2013 – July. 2017*

EXPERIENCE

- **IPI in Leibniz University** — Hanover, Germany
  Research Assitant (part-time) — *May. 2019 - Apr. 2020*
  - **Research Paper Investigation**: Collection of papers on object detection and application on aerial images
  - **Algorithm Development**: Development of object detection algorithms on aerial images
- **Rainbow Business Solution GmbH.** — Hanover, Germany
  Office Coordinator(part-time) — *Oct. 2018 - Jan. 2020*
  - **Scheduling**: Appointments arrangement, Meeting organization, Conference Setup
  - **Office Coordination**: Business operation by calling, answering and scheduling, files archive, fixing devices.
  - **Interpretation and Translation**: Translation of key points from German to Chinese
- **IKG in Leibniz University** — Hanover, Germany
  Labor Mentor (part-time) — *Apr. 2018 - Apr. 2019*
  - **Labor Supervision**: Support for students on poles detection with point cloud data
  - **Result Examination**: Evaluation the result of experiments and homework
- **IKG in Lebiniz University** — Hanover, Germany
  GUI Programmer for HD Mapping system (part-time) — *Feb. 2018 - Sep. 2018*
  - **GUI Design**: Design of 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**: Adaptation of fresh research papers to the mapping system
- **Zhonghong Geodesy Technology Research Institute** — Changzhou, China
  surveyor(intern) — *Jan. 2017 - July. 2017*
  - **Survey Plan Design**: Estimation of surveying accuracy and feasibility
  - **Scheduling**: Time planing on each part of surveying task
  - **Result Adjustment**: Adjustment of the GPS antenna collected data and technical report

PROJECTS

- **Digital Earth with Web Map Service**: Icosahedron densification with grid technique visualizing large scale 3d map
- **LEGO Courier Simulation**: SLAM techniques on LEGO Robot in a scenario of a delivering task
- **Dynamic Landmark based Visual Odometry**: SFM with feature points matching in RANSAC framework
- **Object Tracking and Motion Prediction via KFs**: Preceding cars motion prediction via Kalman filterings
- **Real-time HD Map Rectification with Multiple Lidars**: Point cloud rectification for accurate mapping system
- **Sensor fusion based on Set-membership KF**: Research project on trajectory optimization with SKF
- **PanUrban Dataset**: Semi-automatic conversion from ISPRS 2D semantic dataset to PanUrban dataset
- **Panoptic Segmentation in urban Area**: Unifying segmentation tasks on 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).