

YUZHOU ZHOU

M.Sc. Candidate, Wuhan University
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OVERVIEW

Candidate for a master's degree in Photogrammetry and Remote Sensing
*State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing (LIESMARS),
Wuhan University (WHU), Wuhan, China*
Research interests: point cloud processing; 3D deep learning; intelligent transportation applications of 3D vision

EDUCATION

M.Sc. in Photogrammetry and Remote Sensing <i>State Key Lab of Information Engineering in SMARS(LIESMARS), Wuhan University</i> Advised by Prof. Bisheng Yang	Sep. 2019 - Jun.2022 <i>Wuhan, China</i>
B.Eng. in Geomatics Engineering <i>School of Geodesy and Geomatics, Wuhan University</i> GPA: 3.88/4.00 (2nd in 302 students)	Sep. 2015 - Jun.2019 <i>Wuhan, China</i>

RESEARCH EXPERIENCES

Transportation Infrastructure Health Monitoring via 3D Sensory Data <i>Advised by Prof. Bisheng Yang, LIESMARS, Wuhan University</i> • Currently designing methods for roadside object detection by integrating panoramic images and mobile laser scanning data.	Dec. 2019 - Present <i>Wuhan, China</i>
3D Reconstruction of Highway Geometrical Characteristics <i>Advised by Prof. Bisheng Yang, LIESMARS, Wuhan University</i> • Proposed a method for detecting highway pavement and boundary from aerial point cloud. • Designed an optimization based fitting algorithm for road 3D alignments reconstruction. • Invention Patents: An Automated Method for Highway Extraction and Vectorization via Aerial Point Cloud.	Aug. 2018 - Nov. 2019 <i>Wuhan, China</i>
Applications of Laser Scanning in Cultural Relics Preservation <i>Project of Innovation and Entrepreneurship Training for Undergraduates</i> • Implemented geometrical reconstruction of small-sized cultural relics based on Delaunay TIN.	Feb. 2018 - Jun. 2018 <i>Wuhan, China</i>

INTERNSHIP

GIS Software Developing <i>GIS Technology Group, Department of System Architecture, JD(Jingdong) Logistics</i> • Parsing customers' delivery address and locate them in pre-segmented geofences based on Baidu Map Web API.	Jul. 2018 - Sep. 2018 <i>Beijing, China</i>
Point Cloud Processing Software Developing <i>Sichuan Highway Planning, Survey, Design and Research Institute Ltd.</i> • Developed CloudCompare plugins for ground point cloud extraction, highway pavement detection, 3D road alignments reconstruction and cross section output. • Software Copyright: CloudCompare Based Highway Laser Point Cloud Processing Software.	Jul. 2019 - Aug. 2019 <i>Chengdu, China</i>

PROGRAMMING AND ENGLISH SKILLS

- Experience in C/C++(with PCL, OpenCV, Ceres-Solver, CGAL, etc.), Python(with PyTorch), MATLAB, CloudCompare Plugins Development.
- TOEFL(Jul. 2017): 101(S26, R27, L26, W22).