# Yi Zhao

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## Education background

**Visiting student** **2021/01-2022/02**

Geomatics, Department of Civil and Environmental Engineering, Norwegian University of Science and Technology

Co-supervisor: Prof. Hongchao Fan

**Ph.D.** **2018/09-2023/06**

Cartography and Geographical Information Systems, Key Laboratory of Geographic Information Science (Ministry of Education), East China Normal University

Cartography and Geographical Information Systems, School of Geographic Sciences, East China Normal University

Supervisor: Prof. Jianping Wu; Co-supervisor: Prof. Bailang Yu

**B.S.** **2014/09-2018/06**

Geographical Information Sciences, College of Resources and Environment, Anhui Agricultural University

## Projects and research experience

1. National Natural Science Foundation of China (No. 41871331): Estimation of dynamic population distribution in cities with a high spatial and temporal resolution based on multi-source remote sensing data and deep learning, Participant.

2. Shanghai Sailing Program (No.19YF1413800): Research on dynamic monitoring of urban landscape based on multi-source remote sensing data, Participant.

3. Norwegian-Chinese Government Scholarship Program 2021/2022 (No. NGSC-CN-2021/00007), PI.

4. Open Fund of Key Laboratory of Geographic Information Science (Ministry of Education), East China Normal University (Grant No. KLGIS2022A04), Participant.

5. Deep learning-based approach for reconstruction of 3D building models with semantic information. NTNU Rector funding (NO. 81771593), Participant.

## Awards and prizes

1. Outstanding Graduates of Universities in Anhui Province Award, Hefei, China, 2018
2. East China Normal University Outstanding Student Award, Shanghai, China, 2019
3. The Norwegian-Chinese Government Scholarship 2021/2022, Bergen, Norway, 2021
4. Outstanding Graduates of Universities in Shanghai Award, Shanghai, China, 2023

## Publications

**Yi Zhao**, Bin Wu, Qiaoxuan Li, Lei Yang, Hongchao Fan, Jianping Wu, Bailang Yu. (2023) Combining ICESat-2 photons and Google Earth Satellite images for building height extraction. ***International Journal of Applied Earth Observation and Geoinformation***, 117, pages 103213, DOI: 10.1016/j.jag.2023.103213

**Yi Zhao**, Bin Wu, Song Shu, Lei Yang, Jianping Wu, Bailang Yu. (2022) Evaluation of ICESat-2 ATL03/08 surface heights in urban environments using airborne LiDAR point cloud data. ***IEEE Geoscience and Remote Sensing Letters*** 19, pages 1-5. DOI: 10.1109/LGRS.2021.3127540.

**Yi Zhao**, Bin Wu, Jianping Wu, Song Shu, Handong Liang, Min Liu, Vladimir Badenko, Alexander Fedotov, Shenjun Yao & Bailang Yu (2020) Mapping 3D visibility in an urban street environment from mobile LiDAR point clouds, ***GIScience & Remote Sensing***, 57:6, 797-812, DOI: 10.1080/15481603.2020.1804248.

Bin Wu, Lei Yang, Qiusheng Wu, **Yi Zhao**, Zhan Pan, Tian Xiao, Jiarui Zhang, Jianping Wu, Bailang Yu. (2022) A stepwise minimum spanning tree matching method for registering vehicle-borne and backpack LiDAR point clouds. ***IEEE Transactions on Geoscience and Remote Sensing***, 60, pages 1-13. DOI: 10.1109/TGRS.2022.3226956.

Bin Wu, Bailang Yu, Song Shu, Handong Liang, **Yi Zhao**, Jianping Wu. (2021) Mapping fine-scale visual quality distribution inside urban streets using mobile LiDAR data. ***Building and Environment*** 206, pages 108323. DOI: 10.1016/j.buildenv.2021.108323.

Bin Wu, Bailang Yu, Song Shu, Qiusheng Wu, **Yi Zhao**, Jianping Wu (2021) A spatiotemporal structural graph for characterizing land cover changes, ***International Journal of Geographical Information Science***, 35:2, 397-425, DOI: 10.1080/13658816.2020.1778706.