



Zhihao LIU

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WORK EXPERIENCE

12/2021 – CURRENT – Oslo

UNIVERSITY RESEARCH ASSISTANT – UIO

As a research assistant in [this group of scientists](#), I joined the field (drone) trip and am currently working on the algorithm development for processing DEM and ICESat-2 datasets.

06/2014 – 06/2021

FIELD TECHNICIAN / GEOMATICS PROFESSIONAL – BGP OFFSHORE, CNPC

- [3D/4D/OBN Seismic Surveys as Navigator and Technician Globally \(Norway, UK, West Africa\)](#).
- [Coding for Seismic: Optimized Workflows by Data-driving Solutions](#).
- Worked with a world-class seismic team in a multicultural environment & QHSE culture.
- Register of Licensed Surveyors of P.R.C.

EDUCATION AND TRAINING

08/2021 – CURRENT

MASTER IN GEOSCIENCE – Universitetet i Oslo

Curriculum: Advanced Remote Sensing and Topographic Analysis | IPCC AR6 Seminar | The Surface Energy Balance in Cold Environment | Floods, Avalanches and Landslides | Surveying, Photogrammetry and Spatial analysis | Geophysical Data Science

Thesis: [Benchmarking DEM uncertainties: workflows and applications on snow depth](#).

Report:

- Change Detection on Agriculture: a case study of the Western Nile Delta in Egypt
- Validating and Mapping Lake Surface Temperature from MODIS: a case study of lakes in Sweden
- Stereo-derived DEMs: Assessment, Validation and Change Detection: a case study of Sedongpu...
- [How to bury Longyearbyen by an avalanche: mass movement modeling](#)
- [Oslo Housing Price MCDA Model: a perspective from spatial contributions](#)
- [What if the ice block expedition 1959 happens in 2021? You can not blame it on climate change](#)

Field(s) of study

- Geomorphology and Geomatics

08/2010 – 07/2014

BACHELOR IN GEODESY AND GEOMATICS – South West Petroleum University, Chengdu, China

- With a background in Engineering, Cartography, GNSS, and GIS.
- GPA overall 83/100 major, A for bachelor's thesis (WebGIS).

● LANGUAGE SKILLS

Mother tongue(s): **CHINESE**

Other language(s):

ENGLISH

● DIGITAL SKILLS

My Digital Skills

Automating GIS | Data-driving Solution | Data QC & Processing | QGIS | Numerical Modeling |
ArcGIS | Python

● PROJECTS

07/2020 – 10/2020

North Sea Quad 35 Hybrid 3D seismic survey

[Quad 35 is the first hybrid seismic combined streamers and nodes](#) for business purposes. I worked as a technician for contract technical review, onboard acquisition, data QC & reprocessing, and follow-up work. I got [the best commendation](#) from the client for modeling this novel acquisition to make it more efficient and understandable.

01/2022 – CURRENT

SNOWDEPTH – Global snow depths from spaceborne remote sensing for permafrost, high-elevation precipitation, and climate reanalysis

[I am the only Master's student in this luxury research group.](#) I joined the [field \(drone\) trip](#) and am working on the algorithm development for processing DEM and ICESat-2 datasets. This research is key to understanding the snow-depth-related climate mechanism or application, e.g. permafrost, high-mountain precipitation, hydropower...

● REFERENCES

2016 - 2021:

Chief geophysicist of BGP Prospector, [Bo Wen](#), Email: wenbo01@cnpc.com.cn, Mobile: +86 18622259275