



# Zhihao LIU

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## EDUCATION AND TRAINING

08/2021 – CURRENT – Oslo, Norway

**MASTER IN GEOSCIENCE (ON-GOING)** – Universitetet i Oslo

**Curriculum:** Advanced Remote Sensing and Topographic Analysis | IPCC AR6 Seminar | The Surface Energy Balance in Cold Environments | Floods, Avalanches and Landslides | Surveying, photogrammetry and spatial analysis | Geospatial statistics

**Thesis:** Benchmarking DEM Precision: 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 – Chengdu, China

**BACHELOR IN GEODESY AND GEOMATICS** – South West Petroleum University

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

## WORK EXPERIENCE

06/2014 – 12/2020

**FIELD TECHNICIAN / ASSISTANT PARTY CHIEF** – BGP OFFSHORE, CNPC

- 3D/4D/OBN Seismic Surveys Globally as [Navigator and Technician](#).
- [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.

## 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

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07/2020 – 10/2020

### North Sea Quad 35 Hybrid 3D seismic survey

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[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

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[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...