Di Deng

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Education

2019-09 ~ 2021-09   **ETH Zurich**

Earth Sciences (Master)

- Scholarship ETH from Grubenmann-Burri-Fond
- Took credits mostly regarding remote sensing, geochemistry, mineralogy, and geophysics, also took the courses Advanced Sustainability Economics from GESS Department and Marketing Analytics from the University of Zurich

2015-09 ~ 2019-06   **China University of Geosciences, Beijing**

Geology (Bachelor)

- GPA: 3.68/4.0
- First-class scholarship
- Took credits in college math, physics, chemistry, and all geological sciences

2017-07 ~ 2017-07   **Macquarie University**

Geosciences

- GPA: 3.38/4.0
- An exchange year sponsored by China Scholarship Council (CSC) for excellent undergraduates studying abroad
- Took credits in natural geosciences and interdisciplinary sciences such as the course Environment and Society

Project experience

2020-08 ~ 2021-09   **Master project**

- My master project focused on analyzing digital elevation models (DEMs) using Matlab (Python) and ArcGIS (QGIS) to figure out the geomorphic relationship between the geometry of the Doubs River near Besancon and the activity of tectonics in the region.
- A research proposal and a final Master's thesis, which satisfied the standards of the Swiss National Science Foundation, were composed.

2021-02 ~ 2021-06   **Semester project**

- The semester project was to apply methods of machine learning in geobiology. My topic was using machine learning to study the relationship between chlorophyll concentrations and wind strengths in the Peru upwelling ecosystem.
- A research proposal and a final report were composed.

2020-09 ~ 2021-01   **Semester project**

- The project was to use ArcGIS and to analyse the Cimalmotto landslide in Switzerland including georeferencing, digitalisation, visualisation of landslide, volume calculations of erosion areas, overlay analysis of risk areas, profile analysis, and flood estimation.
- A report was composed.

Internship experience

2018-08 ~ 2019-06   **Institute of Geology and Geophysics, Chinese Academy of Sciences**

Project manager

- Focused on paleoclimate and paleomarine productivity in Yangtze region during Late Ediacaran- Early Cambrian by analyzing total organic carbon, biogenic barium, and organic phosphorus; Observed hundreds of slice specimens; Analysed main elements and types of minerals via the method of XRF and XRD, respectively.
- A Bachelor's thesis was composed, and a journal paper is being composed.

Skills

Advanced — Data analysis	Advanced — Matlab	Advanced — Python
Advanced — ArcGIS (QGIS)	Average — R	Average — Machine learning
Advanced — Office software	Advanced — English	Average — German