

# Jin Shenyao

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## EDUCATION

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### Zhejiang University

*Bachelor of Geological Science*

Hangzhou, China

*Expected August 2023*

- Overall GPA: 88/100, 3.86/4
- Major GPA: 90/100, 3.92/4, Ranking 1/6
- [Chu Kochen Honors Program](#)
- GRE: 320(verbal: 153)+3.5
- TOEFL iBT: 95

### Colorado School of Mines, RCP Lab

*On-site Summer Intern*

Golden, United States

*July 2022 to September 2022*

- Process the DAS data of Lake Hattie. Extract fish activities and perform velocity scanning based on the data.
- Advisor: Ge Jin.

## PROJECTS

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### Imaging from Ambient Noise of DAS data of Lake Hattie | *pure python*

July 2022 – Present

- Get underground structure of Lake Hattie, and analyze the activities of Lake Hattie
- Advisor: [Ge Jin](#)

### Effective Elastic Thickness Analysis of North China Craton(NCC) | *python and MATLAB*

April 2021 – May 2022

- Obtain a empirical formula of Effective Elastic Thickness of NCC from data of various physical properties. Conclude factors controlling the effective elastic thickness of the North China Craton.
- Advisor: [Xu Yixian](#)

## TECHNICAL SKILLS

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**Programming Languages:** Skilled in Linux Shell Script, C/C++, Python, MATLAB/Octave, Mathematica,  $\text{\LaTeX}$ , Markdown, Git

**Communication:** English, Chinese and Japanese

**Operating System:** Linux(including Debian, RHEL and Arch)

**Mathematic and physical skills:** Numerical analysis, Mathematical modeling, Statistics and Probabilities, Signal processing

**Geophysical skills:** Seismic Data Processing(Using [Seismic Unix](#) or [Obspy](#)), Magnetotellurics Data Processing(Using [EMTF](#)), DAS(Distributed Acoustic Sensing) data processing(Using Python)

## OTHER INTERESTS

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### Arch Linux Community Contributor

*Improve compatibility and performance of software in Arch Linux*

*Since 2020*

- Compatibility mantainance works.
- One of the projects: [KDE Global Menu on Arch Linux](#).

## RELATED COURSES

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**Geophysical Data Acquisition**, Credit: 92/100

**Applied Seismology**, Credit: 96/100

**Geophysical Field Theory**, Credit: 93/100

**Linear algebra**, Credit: 96/100

**Petrogeophysics**, Credit: 96/100

**Computational Physics**, Credit: 90/100

**Physics II (Honors Program)**, Credit: 91/100

**Geophysical Data Processing**, 88/100

**Near-surface geophysics**, 95/100

**Geo-electromagnetism**, 97/100

**Theoretical Mechanics**, 90/100