Shenyao Jin

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Education

Zhejiang University Hangzhou, China
Bachelor of Geological Science *September 2019 ˜August 2023*

- **Overall** GPA: 3.86/4; **Major** GPA: 3.92/4

Colorado School of Mines, Reservoir Characterization Project (RCP) Golden, United States
Visiting Student *July 2022 ˜September 2022*

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

Colorado School of Mines, Reservoir Characterization Project (RCP) Golden, United States
PhD Student of geophysics (2nd year) *August 2023 ˜Present*

- Advisor: Ge Jin.
- **Overall** GPA: 4.0/4.0
- Focus on the hydraulic fracturing result analysis and evalution based on DFOS system

Projects

Bakken N. Dakota Distributed Fiber Optic Sensing (Project Mariner) - ExxonMobil August 2023 ˜Present

- Using an extensive range of DFOS and engineering data from Bakken Mariner pilot project to characterize the conductive hydraulic fractures' behaviors during both the stimulation and production phases.
- Advisor: Ge Jin

Clustering Joint Inversion of Subsurface Geological Targets | *C++* January 2023 ˜May 2023

- Implementation of Kernelized FCM(**F**uzzy **C**-**M**eans) Clustering algorithm and apply joint inversion to field data from Liangzhu, an ancient Chinese city.
- Advisor: Zhanjie Shi

Imaging from Ambient Noise of DAS data of Lake Hattie | *python* July 2022 ˜September 2022

- Get underground structure of Lake Hattie, and analyze the activities of Lake Hattie.
- Advisor: Ge Jin

Skills

Programming: Python, MATLAB, C++, Linux Shell Script, LaTeX

Geophysical Skills: Seismic data/fiber optic data processing & analysis and interpretation, Seismic inversion, Machine learning in geophysics.

Public Presentation

Conductive Fracture Monitoring Using DSS: from Stimulation to Production August 2024

- It is presented in IMAGE'24.
- It explains the technique combining multiple datasets on explaining the behavior of hydraulic fractures during the whole operation including stimulation and production period.

Awards

Meritorious Winner in Mathematical Contest in Modeling(MCM) February 2022

- Awarded for the top 8% teams of undergraduates use mathematical modeling to solve real-world problems. Contributed as the programmer and data analysist of the team.

First Year Fellowship for graduate students March 2024

- Awarded for ability to integrate geophysics with computational techniques to advance sustainable resource management.

George R. Pickett Memorial Scholarship October 2024

- Awarded for demonstrated interest and accomplishment in borehole geophysics with practical applications in the oil and gas industry.