## SHENYAO JIN shenyaojin@mines.edu | (310) 256-7875 PhD student in geophysics focused on fiber-optic sensing and seismo-acoustic modeling

## Education

Colorado School of Mines, Reservoir Characterization Project (RCP) PhD Student in Geophysics (2nd Year) – Advisor: Ge Jin – GPA: 4.0/4.0	Golden, CO, USA Aug 2023 – Present
– Focus: Distributed fiber-optic sensing (DFOS) and pressure-strain modeling in hydraulic fracturing a	analysis.
Colorado School of Mines, Reservoir Characterization Project (RCP)	Golden, CO, USA
<ul> <li>Visiting Student</li> <li>Processed DAS data from Lake Hattie to extract fish activity signals and perform velocity scanning.</li> <li>Advisor: Ge Jin</li> </ul>	Jul 2022 – Sept 2022
Zhejiang University	Hangzhou, China
Bachelor of Geological Science – Overall GPA: 3.86/4; Major GPA: 3.92/4	Sept 2019 – Aug 2023
Projects	
<ul> <li>Distributed Fiber-Optic Sensing in the Bakken (Project Mariner, ExxonMobil)</li> <li>Characterized conductive hydraulic fractures using DFOS strain rate data and pressure gauges durin production.</li> </ul>	Aug 2023 – Present ng both stimulation and
<ul> <li>Integrated low-frequency DAS interpretation with pressure gradient analysis and fracture network m</li> <li>Advisor: Ge Jin</li> </ul>	nodeling.
<ul> <li>Clustering Joint Inversion of Subsurface Targets   C++</li> <li>Implemented kernelized Fuzzy C-Means algorithm for clustering joint inversion of geophysical datase archaeological site.</li> <li>Advisor: Zhanjie Shi</li> </ul>	Jan 2023 – May 2023 ets from Liangzhu
<ul> <li>Ambient Noise Imaging of DAS Data from Lake Hattie   Python</li> <li>Used ambient DAS data to obtain subsurface imaging of Lake Hattie and assess environmental dyna</li> <li>Advisor: Ge Jin</li> </ul>	Jul 2022 – Sept 2022 mics.
Skills	
Programming: Python, MATLAB, C/C++, IAT <sub>E</sub> X, Bash	
<b>Geophysical Methods:</b> DFOS/DAS data processing and modeling, strain-pressure analysis, hydrinterpretation, signal denoising	draulic fracture
<b>Technical Competencies:</b> Time-series signal processing, exploratory data analysis, seismic invemodeling, Linux workflows	rsion, numerical
PUBLIC PRESENTATIONS	
<ul> <li>Conductive Fracture Monitoring Using DAS: From Stimulation to Production</li> <li>Presented at IMAGE'24. Demonstrated the use of LF-DAS and pressure data to track fracture conn strain evolution in horizontal wells.</li> </ul>	Aug 2024 nectivity and annular
MANUSCRIPTS IN PREPARATION	
Low-Frequency DAS for Cement Quality Monitoring in Horizontal Wells         In p           - First-author manuscript to be submitted to SPE Journal. Proposes a method for monitoring cement low-frequency DAS and pressure-strain coupling. Validated through history matching and field data         In p	reparation, April 2025 t integrity using 
Awards	
Meritorious Winner, Mathematical Contest in Modeling (MCM) — Top 8% of international undergraduate teams. Contributed as lead programmer and data analyst.	Feb 2022
<b>First-Year Fellowship for Graduate Students</b> — Recognized for integrating computational geophysics to advance sustainable energy systems.	Mar 2024
George R. Pickett Memorial Scholarship — Awarded for excellence in borehole geophysics with applied focus on oil and gas workflows.	Oct 2024