

William Jacob Long

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EDUCATION

PhD, Earth and Planetary Sciences	Spring 2028 (Expected Graduation)
Stanford University – Advised by Dr. Tiziana Vanorio	
Dissertation: “The Role of Microstructure and CO ₂ -Fluid-Rock Interactions on the Physical Properties of Clay Rich Sandstones”	
GPA: 4.00	
BS, Geology	Spring 2023
Brigham Young University-Idaho	
GPA: 3.86	
Certificate – Geospatial Technology (GIS)	Spring 2023
Brigham Young University-Idaho	

RESEARCH INTERESTS

Utilizing geology and rock physics to study fluid-rock interactions in porous media and their impacts on the physical and mechanical properties of reservoir lithologies with applications in carbon capture and storage, geologic hydrogen production, and geothermal energy.

SCHOLARSHIPS AND AWARDS

Academic Excellence – BYU-I Geology Department	April 2023
Outstanding Field Camp Student – BYU-I Geology Department	April 2023
Excellence in Research – BYU-I Geology Department	April 2022
Outstanding Department Service – BYU-I Geology Department	April 2022

RESEARCH EXPERIENCE

Geographic Information Systems (GIS) Management for Kingdom of Buganda Holy Sites Project, Uganda	2021 – 2022
Geologic Map Raster Conversion to Vector Data Utilizing Machine Learning	Winter 2022

TECHNICAL EXPERIENCE

Research Assistant – Stanford University Rock Physics and Geomaterials Laboratory, PI: Dr. Tiziana Vanorio	2023 – Present
Assistant Director of the Field Camp – BYU-I Geology Department	Summer 2023
Teaching Assistant – BYU-I Geology Department Physical Geology (GEOL 111), Earth Materials (GEOL 351, 351L) Igneous and Metamorphic Petrology (GEOL 352)	2020 – 2023
GIS Intern – Idaho Falls Power	Summer 2021

ORGANIZATIONAL AFFILIATIONS

President – AAPG BYU-I Student Chapter	2021 – 2022
Co-President – BYU-I Geology Society	2021 – 2022
Vice President Elect – AAPG BYU-I Student Chapter	2020 – 2021
Member – Geological Society of America	2022 – Present

ADDITIONAL APTITUDES AND ACTIVITIES

Fluent in Spanish Volunteered and lived full-time in Mexico City	2016 – 2018
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