

David Lucero

Geologist

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Professional Summary

Geology graduate currently pursuing a Master's degree, with a focus on tectonics and magmatic systems. Experience in academic research, structural analysis using specialized software, geological mapping, petrography, and geochemistry. Enthusiast of scientific software development for academic and technical fields.

Technical Skills

- **Scientific tools:** ArcGIS, Stereonet, FaultKin, WinTensor, IgPet
 - **Programming & Web Technologies:** Basic knowledge of Python, HTML5, CSS, and GitHub
 - **Other:** Basic AutoCAD, Microsoft Office
 - **Languages:** Spanish (native), English (intermediate)
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Education

- **Master of Science – Geology** — Universidad de Sonora 2023 – 2025
 - **Bachelor's Degree in Geology** — Universidad de Sonora 2015 – 2020
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Relevant Projects

- **Igneous Rock Classifier and Formal Description:**

Developed a graphical user interface for the classification of igneous rocks, including a formal description system based on petrological criteria.

- **Research line on the proto-Gulf of California, study area: Sierra El Himalaya, Sonora (Master's Thesis):**

Research project focused on the tectono-magmatic evolution of the proto-Gulf of California. Includes geological mapping, structural analysis, petrography, geochemistry, geochronology, and petrotectonic modeling.

- **Research line on the proto-Gulf of California, study area: Isla San Pedro Nolasco, Sonora (Bachelor's Thesis):**

Research project focused on geological mapping and structural analysis related to the proto-Gulf of California.

Professional Experience

- **Geology Intern**

Jan 2020 – Feb 2020

Grupo México, División Exploraciones Zona Noroeste

Hermosillo, Sonora

- Cataloged and digitized technical files related to mining projects and ASARCO LLC properties, including geological, mining, and metallurgical content.
 - Received theoretical and practical training in the use of the OreXpress SM-3500 portable spectrometer for geochemical analysis.
 - Participated in technical conference rounds on mineral exploration topics held at Grupo México facilities.
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Publications

- Vidal Solano, J. R., Velderrain Rojas, L. A., & **Lucero Acosta, D. A.** (2024). Geología de la Isla San Pedro Nolasco, Guaymas, Sonora, México. EPISTEMUS, 18(36), e3605307. <https://doi.org/10.36790/epistemus.v18i36.307>
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Certificates

- Principles of the U-Th-Pb method: Applications to dating mineralization – Estación Regional del Noroeste del Instituto de Geología (UNAM), 2024.
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Additional Information

- XXXIII Congreso Nacional de Geoquímica – INAGEQ 2023 (Tercer lugar en participación de carteles, nivel maestría)
- XXVI Reunión Universitaria de Investigación en Materiales – RUIM 2023
- XI Congreso Estatal de Ciencias Exactas y Naturales – CECEN 2024
- XXXIV Congreso Nacional de Geoquímica – INAGEQ 2024
- XXVII Reunión Universitaria de Investigación en Materiales – RUIM 2024
- Research stay at the Centro de Investigación Científica y de Educación Superior de Ensenada, Baja California (CICESE), K-Ar dating – 2024