

# Daniel Maya

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## EDUCATION

**Ph.D. in Geology**, University of Houston, Houston, TX

Expected Dec 2026

Thesis: Tectonostratigraphy, crustal structure, and Basin modeling of Punta del Este and Pelotas basin, Uruguayan margin.

- GPA: 3.67
- Coursework: Basin Analysis for Petroleum Exploration (Dr. Mann), Seismic Structural Geology (Dr. Suppe), Petroleum Prospecting Workshop (AAPG IBA – Dr. Mann), Petroleum Exploration Rifted Passive Margins (Dr. Mann)
- 1<sup>st</sup> Place AAPG-IBA North American region 2024
- 3<sup>rd</sup> Place AAPG-IBA Global 2024
- Basin modeler of AAPG-IBA UH team 2024, prospect exploration and development in Alaska, Bristol Bay Basin.
- Coordinator of Structure and Tectonic Seminar-UH Spring 2024.
- Advisor: Dr. Paul Mann

**B.S. in Geology Engineering cum laude**, Escuela Politecnica Nacional, Quito, Ecuador

Nov 2022

Thesis: Stratigraphy, Sedimentology, and Geochemistry of the Hollin Formation in the Sub-Andean Zone

- GPA: 3.47

## RESEARCH EXPERIENCE

**Research Assistant**, Conjugate Basins Tectonics and Hydrocarbons Consortium, U.H.

Aug 2023 – Present

- Collaborated with Dr. Mann to conduct crustal 3D structure characterization, tectonostratigraphic framework, and basin modeling of Uruguayan margin offshore basins for hydrocarbon exploration
- Analyzed seismic 2D interpretations, stratigraphy, and tectonics to give new insights into the petroleum systems of offshore Uruguay

**Research Study Assistant**, National Geological Survey, Ecuador

Aug 2021 – Jan 2022

- Promoted the use of renewable and non-renewable resources by compiling a comprehensive data set of every geochronological Equatorian land study and analyzing the integrated database
- Illustrated all geochronological points in the database using GIS

## WORK EXPERIENCE

**Junior Geologist**, Best Energy Service S.A., Quito, Ecuador

Dec 2022 – Jan 2023

- Completed volumetric calculations of OOIP, generated Petrophysic correlations and stratigraphic correlations between wells to extrapolate to another prospective field (Saywa, Lumbaqui, VHR-E, VHR-O, and TTT-S) for drilling. With outstanding results reviewed by my supervisors.

**Operation Intern**, Pluspetrol Ecuador B.V., Quito Ecuador

Aug 2022 – Dec 2022

- Studied the petroleum surface facilities of block 10 in the Oriente basin of Ecuador and assisted production team members with managing the control room

**Reservoir Development Intern**, Respol Ecuador S.A., Quito, Ecuador

Feb 2022 – Aug 2022

- Renovated the petrophysical data with conventional and special core studies
- Effectuated the rock typing equations for every camp of blocks 16 & 67 at the Oriente basin of Ecuador through Amaefule et al. (1993) methodology.

## PUBLICATIONS

- **Maya, D.**, Romero Córdor, C., Pazmiño, P., & Oñate, L. (2022). Ciclos Magmáticos En El Registro De Edades U-Pb En Circones Detríticos De La Cuenca Oriente Y Zona Subandina, Ecuador. <https://doi.org/10.13140/RG.2.2.23741.54244>.
- **Maya Ortiz, D. S.** Estratigrafía, Sedimentología y Geoquímica de las Formaciones Chapiza y Hollín en la Zona Subandina. (Bachelor Thesis, Quito: EPN, 2022). <http://bibdigital.epn.edu.ec/handle/15000/23177>.
- Pulupa, R., Calderón, E., Romero Córdor, C., Torres, J., Carranco, F., Gramal, A., Pazmiño, P., and **Maya, D.** (2022). Discriminación Litoestratigráfica, Petrográfica y Geoquímica De La Formación Tarquí En El Corte Cañar - Azogues.

## LEADERSHIP

**Representer of Ecuador at AAPG Leadership Summit**, Santa Marta, Colombia

Jun 2024

- Presented to other Regional and world energy leaders the best practices, lessons learned, and how to improve the LACR AAPG region and globally.

- Vice President**, American Assoc. of Petroleum Geologists Wildcatters UH, Houston, TX Aug 2023 to Present
- Organized professional lectures and workshops for members as the Cohead of the UH Student Chapter
- President**, American Assoc. of Petroleum Geologists Young Professionals, Quito, Ecuador Jan 2023 – Jan 2024
- Promoted the energy industry to aspiring professionals through professional events and networking
- Vice President**, American Assoc. of Petroleum Geologists-EPN student chapter, Quito, Ecuador Aug 2022 to Nov 2022
- Organized, professional lectures and workshops for members as the Cohead of the EPN Student Chapter

#### PROFESSIONAL AFFILIATIONS

- American Association of Petroleum Geologists, AAPG**, Quito, Ecuador 2019 - Present
- Asociación Colombiana de Geólogos y Geofísicos del Petróleo**, Bogotá, Colombia 2022 - Present
- Houston Geological Society**, Houston, TX 2023 – Present
- Geophysical Society of Houston**, Houston, TX 2023 – Present

#### PROFESSIONAL PRESENTATION AND AWARDS

- Structure and Tectonic Seminar Fall 2023: Transferring Effective Play Concepts from Hydrocarbon Discoveries in Namibia's Deep-Water to its Conjugate Margin in Argentina.
- 25<sup>th</sup> Sheriff Lecture University of Houston: Could Argentina's deepwater, rifted-passive margin be as prolific in hydrocarbons as its Namibian conjugate margin? - Results from 1-D basin modeling.
- 1<sup>st</sup> Place AAPG-Imperial Barrel Award North American region 2024: Hydrocarbon Prospectivity of the Bristol Bay Basin, Alaska.
- 2<sup>nd</sup> Place poster presentation 37<sup>th</sup> University of Houston Research Day at the University of Houston: Control of the crustal thickness of the Uruguayan margin on types of seaward-dipping reflectors and maturation of Cretaceous source rocks.
- 3<sup>rd</sup> Place AAPG-Imperial Barrel Award Global, 2024: Stoneley Medal winner.

#### SKILLS

- Dry Lab**: Granulometry test, FRX, stratigraphy, sedimentological interpretation, and petrography recognition.
- Software**: Petrel, Kingdom, Oasis Montaj, QGIS, Adobe Illustrator, GCDkit, Excaliber basin modeling, Trinity-Genesis, Office
- Languages**: Bilingual in English and Spanish