Daniel Maya

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PROFESSIONAL SUMMARY

Second-year PhD Geology student at the University of Houston, applying basin analysis in offshore basins, utilizing seismic interpretation and basin modeling. My studies and leadership at AAPG drive my commitment to innovation and excellence in hydrocarbon exploration.

EDUCATION

University of Houston, Houston, TX
Doctorate of Philosophy, Geology, GPA: 3.67   **Graduation expected May 2026**
Thesis: Crustal Structure of Uruguay and Northern Argentina: Late Aptian secondary rifting reconstruction between the Punta del Este and Pelotas Basin and Its Sedimentary Implications, Basin modeling of the Aptian, Cenomanian-Turonian petroleum systems of the deepwater of the Uruguayan and Argentinean Margin
Advisor: Dr. Paul Mann

- **Courses:** 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)

Escuela Politecnica Nacional, Quito, Ecuador
Bachelor of Science in Geology, Cum Laude, GPA: 3.47   Nov 2022
Thesis: Stratigraphy, Sedimentology, and Geochemistry of the Hollin Formation in the Sub-Andean Zone

WORK EXPERIENCE

Junior Geologist, Best Energy Service S.A., Ecuador   Dec 2022 – Jan 2023
- Completed volumetric calculations of OOIP, generated Petrophysics correlations and stratigraphic correlations between wells to extrapolate to another prospective field for drilling (Saywa, Lumbaqui, VHR-E, VHR-O, and TTT-S) lead to discoveries

Operation Intern, Pluspetrol Ecuador B.V., Ecuador   Aug 2022 – Dec 2022
- Studied the petroleum surface facilities of Block 10 (Villano field) in the Oriente basin of Ecuador and assisted production team members with managing the control room

Reservoir Development Intern, Respol Ecuador S.A., Ecuador   Feb 2022 – Aug 2022
- Renovated petrophysical data with conventional and special core studies
- Applied the rock typing equations for every camp of blocks 16 & 67 at the Oriente basin of Ecuador through Amaefule et al. (1993) methodology

AWARDS

- 1st Place AAPG-Imperial Barrel Award North American region 2024: Hydrocarbon Prospectivity of the Bristol Bay Basin, Alaska, Basin modeler of AAPG-IBA UH team 2024
- 2nd Place poster presentation 37th 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
- 3rd Place AAPG-Imperial Barrel Award Global, 2024: Stoneley Medal winner

RESEARCH EXPERIENCE

Research Assistant, Conjugate Basins Tectonics and Hydrocarbons Consortium, U.H.   Aug 2023 – Present
- Collaborating with Dr. Mann to conduct crustal 3D structure characterization, tectonostratigraphic framework, and basin modeling of Uruguayan margin offshore basins for hydrocarbon exploration
- Analysis of 2D and 3D seismic interpretations, stratigraphy, and tectonics to give new insights into the petroleum systems of offshore Uruguay

Research Project 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

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PUBLICATIONS

- **Maya, D.**, Romero Cóndor, C., Pazmiño, P., & Oñate, L. (2022). Magmatic Cycles in the U-Pb Age Record of Detrital Zircons from the Oriente Basin and Sub-Andean Zone, 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 Cóndor, C., Torres, J., Carranco, F., Gramal, A., Pazmiño, P., and **Maya, D.** (2022). Lithostratigraphic, Petrographic, and Geochemical Discrimination of the Tarqui Formation in the Cañar-Azogues Profile.

LEADERSHIP

Representative 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

Structure and Tectonic Seminar Coordinator, Houston, TX   Jan 2024 – Apr 2024
- Organized technical talks with UH students and Alumni about their projects and tectonics around the globe

President, American Assoc. of Petroleum Geologists Wildcatters UH, Houston, TX   Aug 2024 to Present
Vice President, American Assoc. of Petroleum Geologists Wildcatters UH, Houston, TX   Aug 2023 to Aug 2024
President, American Assoc. of Petroleum Geologists Young Professionals, Ecuador   Jan 2023 to Jan 2024
Vice President, American Assoc. of Petroleum Geologists-EPN student chapter, Ecuador   Aug 2022 to Nov 2022
- Led the planning and execution of technical seminars, professional lectures, and workshops, facilitating knowledge exchange and professional development for students and young professionals in geoscience
- Fostered collaboration between academic institutions, industry experts, and regional chapters, strengthening networks and promoting best practices in the energy sector across various international platforms

VOLUNTEERING / PROFESSIONAL AFFILIATIONS

- American Association of Petroleum Geologists, AAPG   2019 - Present
- Asociación Colombiana de Geólogos y Geofísicos del Petróleo   2022 - Present
- Houston Geological Society   2023 - Present
- Geophysical Society of Houston   2023 - Present

PROFESSIONAL PRESENTATION

- Structure and Tectonic Seminar Fall 2023: Transferring Effective Play Concepts from Hydrocarbon Discoveries in Namibia's Deep-Water to its Conjugate Margin in Argentina
- 25th 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
- Structure and Tectonic Seminar Spring 2024: Crustal Structure in Uruguay's Deepwater Hydrocarbon Province: Gravity Models, Tectonic Insights, and Hydrocarbon Potential
- 37th 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
- AAPG IMAGE 24 international conference: Crustal structure of the volcanic-rifted margin of offshore Uruguay based on gravity modeling and application to hydrocarbon basin modeling

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**:
  - **English:** Speaking **(Advanced),** Writing **(Advanced),** Reading **(Advanced),** Listening **(Advanced)**
  - **Spanish:** Speaking **(Native),** Writing **(Native),** Reading **(Native),** Listening **(Native)**