

## Shenelle Gomez

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### Summary

Ph.D. in Geology candidate at the University of Houston seeking an internship position in which I can utilize my expertise in petroleum geology, tectonics, geological and geophysical interpretation, seismic and sequence stratigraphy, and gravity modeling.

### Education

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**University of Houston**, Houston, TX

Doctor of Philosophy in Geology (January 2015- expected August 2018)

GPA: 3.7/4.0

*Dissertation:* Tectonostratigraphic Evolution of the Barbados Accretionary Prism and its controls on Hydrocarbon Prospectivity of the Tobago and Barbados Basins.

*Advisor:* Paul Mann

Bachelor of Science in Geology; minor in Geophysics (August 2010- May 2014)

GPA: 3.61/4.0 (Magna cum laude)

### Skills

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2D and 3D seismic interpretation, 2D gravity modeling, applied geophysics, well log correlation, seismic and sequence stratigraphy, tectonics, structural geology, basin analysis, petrophysics; Landmark Decision Space Desktop, Petrel, SMT Kingdom, Oasis Montaj, Fledermaus, ArcGIS, Easy Copy, Adobe suite, Petromod, Microsoft suite

### Employment Experience

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**University of Houston**, Houston, TX

*Teaching Assistant* (August 2016- May 2017)

Courses: Basin Analysis (Dr. Paul Mann), Imperial Barrel Award (IBA)

### AAPG Imperial Barrel Awards, Gulf Coast Region

*Captain, 2<sup>nd</sup> Place Team* (January 2016- May 2016)

Lead a team of five in assessing a prospective basin within the northern North Sea using 3D seismic, well data, and geochemical and petrophysical data to generate an exploration strategy for future development, identify prospects, and make recommendations for data gathering and drilling.

### Graduate Research Assistant (January 2015-Present)

Research focuses on the tectonic evolution of the Barbados Accretionary Prism and its controls on hydrocarbon prospectivity in the deep water, frontier basins of Tobago and Barbados. This study involves geophysical, geological and geochronological methods such as seismic interpretation and seismic well ties within complexly deformed accretionary prism rocks; 2D structural restorations; gravity modeling of basement; core sample analysis; detrital zircon dating and thermochronology onshore. Results will be used to develop an integrated basin and play based assessment of undiscovered oil and gas resources offshore Barbados.

### GIS Specialist/ Database Manager, Caribbean Basins, Tectonics and Hydrocarbon Project (CBTH)

(August 2014- February 2016)

Managed the GIS web-mapping application and developed the CBTH GIS Database.

### Spectrum, Houston, TX

*Seismic Interpreter* (Spring 2015- Present)

Providing geological analysis and interpretation of the 2D seismic dataset offshore Barbados and Tobago.

### Activities and Honors

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2<sup>nd</sup> place, AAPG ACE International Student Poster Competition (2016)

Captain, AAPG Imperial Barrel Award, Gulf Coast Region (Spring 2016)

Awarded the Presidential Graduate Assistant Tuition Fellowship: (Spring 2015- Spring 2018)

Awarded 1<sup>st</sup> place at the Sheriff Lecture Poster Competition: (Fall 2014)

Dean's List: (Fall 2015, Spring 2015, Fall 2013, Spring 2013, Fall 2012, Spring 2012, Spring 2011,)

Recipient of the HESS Award for Outstanding Junior in Geology: (2013)

Recipient of the Chevron Scholarship for Outstanding Academic Performance: (2012)

Recipient of the BP Scholarship for Outstanding Academic Performance: (Fall 2011)

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## Professional Organizations

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Houston Geological Society	2016- Present
American Geophysical Union	2016- Present
American Association of Petroleum Geologists	2014-Present
Geological Society of America	2014-Present
National Society of Collegiate Scholars	2011-2014

## Publications and Presentations

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Gomez, S., *Tectonostratigraphic Evolution of the Barbados Accretionary Prism and its Controls on Hydrocarbon Prospectivity Offshore Barbados*, HGS Dinner Meeting, 2017

Gomez, S., Mann, P., *Structural Domains of the Barbados Accretionary Prism Defined by Regional Grid of 2D Seismic Lines*, American Geophysical Union Fall Meeting, 2016

Gomez, S., *An Overview of Mass Transport Complexes in the Barbados Basin, Eastern Caribbean*, Invited Guest Speaker, Sedimentology and Stratigraphy Seminar, University of Houston, August 2016

Gomez, S., Mann, P., Bird, D., *Deep Crustal Structure and Tectonostratigraphy at the Leading Edge of the Caribbean in Basins Offshore Tobago and Barbados*, AAPG Student Poster Competition, 2<sup>nd</sup> place, June 2016

Gomez, S., Mann, P., Bird, D., *Deep Crustal Structure and Tectonostratigraphy at the Leading Edge of the Caribbean in Basins Offshore Tobago and Barbados*, Presented at Exxon, Nexen, Repsol, Shell, June 2016

Gomez, S., Mann, P., Bird, D., *Origin, lithology and structural architecture of the basement of the Tobago-Barbados Ridge interpreted from a compilation of gravity, wells, seismic refraction and seismic reflection data*, in review, 2016.

Gomez, S., *Crustal Provinces of the Tobago Forearc Basin and Barbados Ridge: New Insights from 2D Seismic and Potential Fields Data*, AAPG Student Expo, September 2015.

Gomez, S., *Tectonic Evolution and Hydrocarbon Prospectivity of the Tobago Forearc Basin, Barbados Ridge, and Barbados Accretionary Prism*, Gulf Coast Association of Geological Societies Student Poster Competition, September 2015.

Gomez, S., Bird, D., *Crustal Structure of the Tobago Forearc Basin and Barbados Ridge Interpreted from 2D Seismic and Gravity Data*, CBTH Year-End Meeting, September 2015.

Gomez, S., Mann, P., *Structural Framework & Hydrocarbon Prospectivity of the Tobago Forearc Basin- Barbados Ridge Transition*, 20<sup>th</sup> Caribbean Geological Conference, Trinidad, May 2015.

Gomez, S., *Structural Framework of the Tobago Forearc Basin- Barbados Ridge Transition Zone*, University of Houston, Research Day, May 2014.

Gomez, S., Mann, P., *Tectonic Evolution of the Tobago Forearc Basin, Barbados Ridge, and Barbados Accretionary Prism*, Sheriff Lecture Poster Competition, November 2014.

**\*References available upon request.**