# Shenelle Gomez

shenelle.gomez@gmail.com

**EDUCATION**

University of Houston**,** Houston, TX
***Ph.D. in Geology*** May 2018 (expected)
Dissertation: "Subsurface structure, stratigraphy, tectonics and hydrocarbon potential of the Barbados accretionary prism and the Tobago Basin."
Advisor: Dr. Paul Mann

***BSc. in Geology; minor in Geophysics*** GPA: 3.61/4 (Cum Laude)
Graduated May 2014

**SOFTWARE SKILLS** Petrel, Neuralog, Midland Valley Move, SMT Kingdom, ENVI, ArcGIS, Landmark Decision Space, Oasis Montaj, Adobe suite, Microsoft suite

**EXPERIENCE**

Department of Earth and Atmospheric Sciences**,** University of Houston

Sept 14 - Present **Graduate Research Assistant— Caribbean Basins, Tectonics and Hydrocarbon Project (CBTH)**

- Conducting a geological and geophysical study of the Barbados accretionary prism and the Tobago Basin using modern, deep-penetration 2D seismic data provided by the oil industry, gravity and magnetic data, well log data, and seismicity data

Aug 14 – Present **GIS Specialist & Project Coordinator— CBTH**

- Manage the GIS web-mapping application and assist in the annual atlas release
- Develop the CBTH GIS Database through the continuous implementation of modern technology, equipment and extensions
- Supervise undergraduate research assistants in GIS database management
- Facilitate required project outputs and applications for individual ArcGIS users

Learning Support Services**,** University of Houston

Jun 12 – May 14 **Certified Master Tutor**

- Instructed students and facilitated their independent learning in freshman through senior level geology and mathematics courses while maintaining a full course load; working 20 hours per week.
- Encouraged and guided students towards achieving both short term and long term academic goals

**RESEARCH PROJECTS**

Aug 13 - Dec 13

- Evaluated the use of ASTER data for exploration of gold deposits in the Takab Region, Iran, through alteration mapping
- Conducted alteration mapping using selective principle component analysis, decorrelation stretch, band ratios, hydrothermal alteration mapping, and minimum noise fraction
- Successfully implemented these remote sensing tools to identify possible gold exploration sites

Jun 13 – Jul 13

- Applied knowledge of the regional geology of the Bighorn Basin, surrounding mountain ranges, the Stillwater Layered Igneous Complex and the Yellowstone Volcanic Province to define and address geologic problems in the field over a six week period at the Yellowstone Bighorn Research Association Geology Field Camp (YBRA) in Red Lodge, Montana
- Responsible for mapping sedimentary, igneous and metamorphic terrains on topographic base and air photos at detailed scales

Aug 12 – Jan 13

- Assistant to Dr. Thomas Lapen in pioneering research to constrain the source region of the tektite impact crater for the Australasian Strewn field
- Conducted major element analysis using the Cameca SX 50 electron microprobe
- Utilized a Photons Machine laser ablation system which facilitated the direct micron-scale analysis of solid samples, the analysis of all types of geological samples, as well as the detection of minor element concentrations in the samples
- Successfully constrained the source by investigating similarities in composition with corresponding data for the identification of the parent material

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**AWARDS**

- Awarded the Presidential Graduate Assistant Tuition Fellowship: (Spring 2015- Spring 2018)
- Awarded 1st place at the Sheriff Lecture Poster Competition: (Fall 2014)
- Dean's List: (Spring 2011, Spring 2012, Fall 2012, Spring 2013, Fall 2013)
- 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)

**ACTIVITIES**

- Member, American Association of Petroleum Geologists, AAPG: (Fall 2014- present)
- Member, The National Society of Collegiate Scholars: (2011- present)
- Member of the Women's National Volleyball Team of Trinidad and Tobago (2005-2008)

**References are available upon request.**