

MARIE NELSY KOUASSI

Senior Undergraduate Geophysics Major graduating May 2017
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OBJECTIVE

Obtain an internship in the geophysics field utilizing my quick learning skills, effective communication skills, work ethic and outgoing personality.

EDUCATION

Bachelor of Science in Geophysics **May 2017**

University of Houston, Houston, TX

Major GPA: 3.4

Relevant Courses: Geophysical Signals and Analysis, Basin Analysis, Groundwater and Engineering Geophysics, Geophysics Field Camp, Introduction to Geophysics, Global Seismology, Remote Sensing, Geoscience Application of GPS and LiDAR, Introduction to Petroleum Engineering, Engineering Math, Partial Differential Equations, Complex Analysis, Physics I and II Physics II, Stratigraphy, Petrography.

SKILLS

Software: ArcGIS, Petrel, VISTA, Matlab, Neuralog, ENVI, Microsoft Word, PowerPoint, Excel, and Adobe Suite

Languages: Fluent in French and English and Conversational in Spanish

EMPLOYMENT EXPERIENCE

Caribbean Basins, Tectonics and Hydrocarbons (CBTH) Consortium, University of Houston

Undergraduate Research Assistant

February 2016- Present

- Assisting in GIS geological and numerical data compilation for a database focused on a study area that including the Gulf of Mexico, Caribbean and South Atlantic passive margins.
- Research involving the quantitative and qualitative analysis of 5,000 detrital zircons ages to test and constrain current plate reconstruction models of the Gulf of Mexico and Caribbean.

Self-Employed, Houston, TX

Private French Tutor

January 2014 - Present

- Tutor beginner and intermediate level individual to improve their grammatical and vocabulary skills in French.
- Provide a conversation partner for practice speaking in French.

RESEARCH AND FIELD EXPERIENCE

Geophysical Field Camp, University of Houston, Galveston, TX

May 2016

- Collected, processed and interpreted land seismic, marine seismic, gravity, magnetic, GPR, well logs, GPS and LIDAR data.

Geological Field Trip, University of Houston, Wichita, OK

Fall 2015

- Applied knowledge of geological field methods to collect strike and dip measurements and measure beds' thickness.
- Mapped contacts between sedimentary and igneous units using topographic map and identifying geologic feature present in study area

Monitoring of Ice Changes in Antarctica, University of Houston

Fall 2015

- Digitally processed satellite images of study area using ENVI software and analyzed resulting images and statistical data to determine changes in ice surface.

VOLUNTEER WORK

Geophysical Society of Houston, Houston TX

February 2015

- Answered high school students' questions about geophysics during 56th Science and Engineering Fair of Houston.

SafeHouse Outreach, Atlanta GA

April 2012

- Sorted winter and summer clothes for donation to homeless people and provided meals.

ABSTRACTS/PRESENTATIONS

Kouassi, M., *Regional comparison of detrital zircon populations in pre-rift Paleozoic and syn-rift Mesozoic rocks from the Gulf of Mexico to northern South America*, American Geophysical Union, Annual Fall Meeting, **December 2016** (Poster)

Kouassi, M., *Regional comparison of detrital zircon populations in pre-rift Paleozoic and syn-rift Mesozoic rocks from the Gulf of Mexico to northern South America*, Houston Geological Society (HGS), Annual Sheriff Lecture, **November 2016** (Poster)

Kouassi, M., *Regional comparison of detrital zircon populations in pre-rift Paleozoic and syn-rift Mesozoic rocks from the Gulf of Mexico to northern South America*, University of Houston, Undergraduate Research Day, **October 2016** (Poster)

Kouassi, M., *What have we learned from previous detrital zircon studies about initial fits of the GOM-Caribbean area and provenance history?* CBTH Year End Meeting, Houston, TX, **September 2016** (Oral presentation)

Kouassi, M., *Testing Two Models of the Evolution of the Caribbean Plate through Compilation of Jurassic to Recent Radiometric Age Dates and Precambrian to Cretaceous Detrital Zircon Populations*, University of Houston, Earth and Atmospheric Sciences Student Research Day, **April 2016** (Poster)

AFFILIATIONS

American Geophysical Union (AGU), member

Summer 2016

Society of Exploration Geophysicists (SEG), member

Summer 2016

SEG Wavelets, (UH student chapter), member

Summer 2016

GeoSociety, (UH student chapter), member

Spring 2016

American Association of Petroleum Geologists (AAPG), member

Spring 2015