

MARCUS ZINECKER

Ph.D. Geology Student
Department of Earth and Atmospheric Sciences
University of Houston
469-693-1285 | mpzinecker@uh.edu

OBJECTIVE

First year University of Houston Geology PhD student studying basin analysis and petroleum systems of Northwest Africa, with an emphasis on 2D seismic interpretation, well log correlation, and sequence stratigraphy seeking an internship in oil and gas exploration for summer, 2019.

EDUCATION

University of Houston, Houston, TX **August 2017 - expected May 2020**

Doctor of Philosophy in Geology, *GPA 4.0*

- *Dissertation: Tectonostratigraphy and hydrocarbon potential of Northwest Africa and its conjugate margins*
- *Advisor: Dr. Paul Mann*
- *Relevant Coursework: Sequence Stratigraphy, Petroleum Geology of the Gulf of Mexico and Latin America, GIS for Geologists, Petroleum Prospecting Workshop, Advanced Sedimentary field Studies. In Progress: Petroleum Geochemistry, Basin Analysis for Petroleum Exploration, Seismic Structural Geology*
- Imperial Barrel Award (IBA) competition team, spring 2018

University of Houston, Houston, TX **August 2009 – May 2014**

Bachelor of Science in Geophysics, *Major GPA 3.56*

- Minor in Mathematics
- *Honors: Cum Laude, University Honors*

University of Houston, Houston, TX **August 2009 - May 2014**

Bachelor of Science in Geology, *Major GPA 3.56*

- *Honors: Cum Laude, Deans List (Spring 2013, Spring 2014)*

EXPERIENCE

University of Houston, Houston, TX **January 2018 - Present**

Graduate Research Assistant

Conjugate Basins, Tectonics, & Hydrocarbons (CBTH) Consortium

- The effect of two-phase rifting on the subsidence history and hydrocarbon generation potential of the southeast Gulf of Mexico and offshore Northern Cuba, using seismic restoration, geochemical data, and 1D basin modelling
- Interpreting the Mesozoic tectonostratigraphy of Guinea Plateau and hydrocarbon potential of the Northwest African Margin and its conjugate, Blake Plateau, offshore Southeast United States using 2D seismic, well logs, and geochemical data.
- Maintain and update CBTH's scientific reference library
- Assist in various CBTH studies and support teaching assistant with student lab assignment creation and other TA duties

Tectronic Industries, Austin, TX **July 2014 – July 2017**

Field sales and Marketing Representative

- Leadership Development Program
- Managed a 3.1 million dollar account with a national retail partner and grew business over 15% in 2016 and 2017

FIELD WORK

Advanced Sedimentary Field Studies Course, University of Houston, Book Cliffs UT **May 2018**

- Corporate sponsored academic field trip
- Sequence Stratigraphy and sedimentology of the Book Cliffs and northern Paradox Basin

Geology Field Camp, Yellowstone Bighorn Research Association, Red Lodge, MT **Summer 2014**

- University of Houston affiliated Field Camp
- Mapped and interpreted formation contacts and structural geology of the Beartooth Front, glacial deposits and East Rosebud Creek, plunging folds in Elk Basin, Gypsum springs, and Block Mountain, and horst and graben structures at Timber Hill

Geophysics Field Camp, YBRA, Red Lodge, MT **Summer 2013**

- University of Houston affiliated Field Camp
- Logged, interpreted, and correlated 2 wells using sonic, gamma, and resistance logging tools
- Conducted rolling seismic surveys using two and three component geophones and interpreted seismic data for first breaks, reflections, refractions, noise, and dominant frequencies
- Created complex three dimensional image of rock outcrops using LiDAR, then tied it to GIS using stationary GPS stations

GPR Research Project at Mueschke Cemetery, Houston, TX **Fall 2013 – Spring 2014**

- Participated in the field data collection phase of a Joint University of Houston and Lonestar College research project that used ground penetrating radar and LiDAR to find and map unmarked graves at a local cemetery in Houston, TX

Mammoth Paleontological excavation, Katy Prairie Conservancy, TX **Fall 2012 – Spring 2014**

- Participated in a University of Houston student-led excavation of a Columbian Mammoth skeleton found in a stream bank in Katy, TX
- Assisted in unearthing and preparation for transport of bones and fragments
- Used GPR to map the site and prospect for more specimens

SKILLS

Software

- Midland Valley Move (2014, 2017), StructureSolver, ArcMap 10.5, Petrel, Microsoft Word, PowerPoint, Excel, Publisher, Adobe Illustrator

ASSOCIATIONS

American Association of Petroleum Geologists (AAPG), <i>Student member</i>	Winter 2018 - Present
American Geophysical Union (AGU), <i>Student member</i>	Spring 2018 - Present
AAPG Wildcatters UH Student Chapter, <i>Secretary (2018-2019)</i>	Fall 2017 - Present
Houston Geological Society, <i>member, Exhibits volunteer (URTeC, AAPG ACE)</i>	Spring 2018 - Present
National Eagle Scout Association, <i>member</i>	Fall 2008 - Present

PRESENTATIONS/PUBLICATIONS

Zinecker M. *Evidence from structural reconstruction and subsidence for two phases of Triassic-Jurassic rifting in the southeastern Gulf of Mexico.* UH EAS Student Research Day, **April 27, 2018:** Houston, TX. (Oral Presentation)

Zinecker M., Mann P. *Plate tectonic framework for petroleum systems of the Atlantic conjugate margins: Northwest Africa-Eastern USA and Northeast South America-Equatorial West Africa.* 17th Annual HGS/PESGB Africa Conference, **Sept 10–12, 2018:** Houston, TX. (Poster)

Zinecker M., Mann P. *Mega-regional scale, decision-tree analysis for hydrocarbon prospecting on passive, conjugate margins of the circum-Atlantic and Gulf of Mexico.* GCAGS 68th Annual Convention, **Sept. 30–Oct. 2, 2018:** Shreveport, LA. (Poster)

Zinecker M., Mann P. *Two successive phases of Triassic-Jurassic Gulf of Mexico rifting recorded in subsidence history of the southeastern Gulf of Mexico.* GCAGS 68th Annual Convention, **Sept. 30 –Oct. 2, 2018:** Shreveport, LA. (Poster)

Serrano-Suarez B., **Zinecker M., Mann P.** *Mesozoic tectonostratigraphy of the Guinea Plateau, West Africa, records successive rift phases of the Central and Equatorial Atlantic.* AAPG 2018 Annual Convention and Exhibition, **May 20-23:** Salt Lake City, UT. (Poster)