
EDUCATION

Ph.D. Candidate of Geology - Stratigraphy & sedimentology*Expected Graduation: Dec 2022*

University of Houston, Houston, TX, USA

GPA: 3.945/4.000

***Dissertation:** Reconstructing past dynamics of Thwaites Glacier, West Antarctica using marine sediment cores, bathymetry, and shallow seismic data.*

Bachelor of Arts in Geology with honors*Graduated May 2016*

Bryn Mawr College, Bryn Mawr, PA, USA

magna cum laude

RESEARCH & WORK EXPERIENCE

Shell – Geoscience Intern (Virtual, 7 weeks)

Summer 2020

Manually labeled + 600 m of North Sea rock core images to test and improve deep learning algorithm's ability to interpret images. Identified patterns of algorithm's successes and limitations.

Chevron Corporation - Exploration Intern

Summer 2019

De-risked reservoir presence for three deepwater prospects in the Gulf of Mexico. Applied seismic geomorphology techniques to 3D volumes to identify Miocene fairways and assess reservoir architecture.

University of Houston – Teaching Assistant

2017 to 2021

Instructed in-person and virtual lab courses; tutored earth science students in the Geoscience Learning Center. Lab Courses Instructed: Physical Geology, Paleobiology, and Graduate Sequence Stratigraphy

University of Houston - Summer Research Intern

2014 to 2016

*(2014-2016) Constructed the seismic stratigraphy of Shatsky Rise using 2D seismic and drill cores, publication in Marine Geology**

*(2015-2016) Conducted thermal demagnetization and data assimilation for 150+ basalt core samples from the Philippine Sea Plate, publication in Proceedings of the International Ocean Discovery Program***

PUBLICATIONS

***Clark, R.W.**, Sager, W.W., Zhang, J., 2018. Seismic stratigraphy of the Shatsky Rise sediment cap, northwest Pacific, and implications for pelagic sedimentation atop submarine plateaus. *Marine Geology* 397, 43–59. DOI: 10.1016/j.margeo.2017.11.019

Sager, W.W., **Clark, R.W., and Carvallo, C., 2018. Data report: paleomagnetic direction measurements on Expedition 352 igneous core samples. In Reagan, M.K., Pearce, J.A., Petronotis, K.E., and the Expedition 352 Scientists, *Izu-Bonin-Mariana Fore Arc*. Proceedings of the International Ocean Discovery Program, 352: College Station, TX (International Ocean Discovery Program). DOI: 10.14379/iodp.proc.352.202.2018

GEOSCIENCE FIELD EXPERIENCE

Amundsen Sea, West Antarctica	2019, 2020, & 2022
<i>Collected and described glaciomarine > 80 sediment cores and processed multibeam bathymetry data sub-bottom acoustic data. Assisted with seismic reflection survey in 2020 field season.</i>	
Svalbard, Norway	2018
<i>Attended a five-week summer course in the Arctic that included a week-long research cruise focused on glacial geomorphology and geophysical data acquisition.</i>	
Book Cliffs & Paradox Basin, Utah	2018
<i>Explored basin evolution and applied sequence stratigraphy in the field alongside industry professionals and UH academic advisors.</i>	
Equatorial Pacific – NSF Research Vessel <i>Sikuliaq</i>	2014
<i>Participated as a watchstander on a five-week long research cruise from Hawaii to Guam surveying Jurassic seafloor magnetic anomalies. Enhanced multibeam bathymetry data for AUV navigation programming.</i>	

MEMEBERSHIPS & PRESENTATIONS

West Antarctic Ice Sheet Conference	2020-2021
Virtual & In-Person Presentations	
Royal Norwegian Consulate General in Houston	2019
Arctic Hour – Scientific Perspective on Polar Systems	
American Association of Petroleum Geologists	2017-Present
Imperial Barrel Award - Gulf Coast Section (2018) Poster Presentation - AAPG Leadership Days (2017)	
American Geophysical Union	2015-Present
Session convener – Fall Meeting (2020)	
Houston Geological Society	2017-Present
Poster Presentations - Sheriff Lecture (2017-2021)	

AWARDS & SCHOLARSHIPS

<i>Denton, Andrews, Porter Glacial Geology Award</i> – GSA specialized award	2021
<i>Presentation Award (1st place)</i> – HGS Sheriff Lecture	2020
<i>Natural Sciences and Mathematics Alumni Scholarship</i> - UH Alumni Association	2020
<i>Presentation Award (2nd place)</i> - UH Student Research Conference	2019
<i>Presidential Endowment Fellowship</i> - University of Houston	2017-Present
<i>Graduate Tuition Fellowship</i> - University of Houston	2017-Present

RELEVANT COURSEWORK

● Seismic Structural Geology and Interpretation ● Advanced Sedimentation and Tectonics ● Imperial Barrel Award Gulf Coast Section (2018) ● Sequence Stratigraphy in the Field, Book Cliffs, UT ● 3D Seismic Exploration I ●

SOFTWARE SKILLS

Seismic Interpretation	Graphical Presentation	Multibeam Processing	Programming
Petrel	ArcGIS & QGIS	CARIS HIPS & SIPS	MATLAB (intermediate)
IHS Kingdom	Adobe Illustrator	EIVA NaviSuite	R Studio (intermediat