

## HECTOR K. GARZA

Department of Geological Sciences, University of Texas at Austin

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### EDUCATION

Period	Institution	Degree
Sep 2020 – 2025	The University of Texas at Austin	PhD, Geological Sciences
Aug 2012 – Dec 2016	The University of Texas at Austin	BS, Geological Geosciences

### PROFESSIONAL EXPERIENCE

2020-Present	Research Assistant – The University of Texas at Austin, Dept. of Geological Sciences
2019-2020	Geoscientists II – Geochemistry and Reservoir Characterization Dept., Premier Oilfield Group, Houston, TX
2017-2019	Geoscientists I – Geochemistry and Reservoir Characterization Dept., Premier Oilfield Group, Houston, TX

### AWARDS & HONORS

#### **Fellowships and Scholarships**

2020-2022	The University of Texas at Austin, Jackson School of Geosciences, GeoFORCE Graduate Student Fellowship, two years of graduate support
Fall 2021	The University of Texas at Austin, UT Center for Planetary Systems Habitability Award, semester of support, includes research and travel funds
2012-2016	The University of Texas at Austin; GeoFORCE Texas Scholarship
2012-2016	The University of Texas at Austin, Gateway Scholar
2012-2016	The University of Texas at Austin, Jackson School of Geosciences Merit Scholar

#### **Research, Travel, and Conference support**

2021	UT Jackson School of Geosciences Analytical Research Award
2021	UT Jackson School of Geosciences Off Campus Research Award
2016	Geological Society of America, On to the Future Program Award
2015	Geological Society of America, On to the Future Program Award

### TEACHING EXPERIENCE

2021	<b>Educational Coach</b> , GeoFORCE Texas Academy (Highschool 11 <sup>th</sup> Grade) Pacific Northwest Geology (Volcanos, Plate tectonics, Coastal Processes).
2021	<b>Educational Coach</b> , GeoFORCE Texas Academy (Highschool 9 <sup>th</sup> Grade) Texas Coast Geology Processes.
2018	<b>Educational Coach</b> , GeoFORCE Texas Academy (Highschool 10 <sup>th</sup> Grade) Arizona Geology (Stratigraphy and Sedimentology).
2016	<b>Volunteer Teacher</b> , Colorado River Alliance, Austin, TX
2016	<b>Volunteer Teacher</b> , Ann Richards School for Young Women Leaders, Austin, TX.

### PUBLICATIONS

1. Eliason CM, Hudson L, Watts T, **Garza H**, Clarke JA. 2017 Exceptional preservation and the fossil record of tetrapod integument. Proceedings of the Royal Society B, 284, 20170556.  
<http://dx.doi.org/10.1098/rspb.2017.0556>

## **CONFERENCE ABSTRACTS**

1. **Garza, H.**, Suarez, S.E., Catlos, E.J., Brookfield, M.E., Stockli, D.F., Batchelor, R.A. and Chamberlain, K.R, (2021). How Old is the Ordovician-Silurian Boundary GSSP at Dob's Linn, Scotland? In 2021 AGU Fall Meeting. <https://agu.confex.com/agu/fm21/meetingapp.cgi/Paper/897301>
2. **Garza, H.**, Torrez, G., Moherek, T., Rowe, H. and Mainali, P., (2019). A Comparison of XRD Mineralogical Variability and Techniques with Proxy Approaches to Defining Mineralogy and Rock Type: Examples from the Wolfcamp-Dean-Spraberry Succession of the Northern Midland Basin. In 2019 AAPG Annual Convention and Exhibition. [https://www.searchanddiscovery.com/pdfz/documents/2019/42423garza/ndx\\_garza.pdf.html](https://www.searchanddiscovery.com/pdfz/documents/2019/42423garza/ndx_garza.pdf.html)
3. Grant, J., Xiao, C., Torrez, G. and **Garza, H.**, (2019). Rapid Characterization of Strata in the Delaware Basin by FTIR Modeling. In 2019 AAPG Annual Convention and Exhibition. <https://www.searchanddiscovery.com/abstracts/html/2019/ace2019/abstracts/2239.html>
4. Prather, T., Hemenway, M., Rowe, H., Morrell, A., Mainali, P., **Garza, H.** and Nikirk, R., (2019). Comparison of the Compositional & Mineralogic Control on Rock Strength Between the Middle Bakken and Three Forks Formation, Williston Basin, USA. In 2019 AAPG Annual Convention and Exhibition. <https://www.searchanddiscovery.com/abstracts/html/2019/ace2019/abstracts/2209.html>
5. Nieto, M., Rowe, H., Hemenway, M., Morrell, A., Krumm, R., Matheny, E. and **Garza, H.**, (2019). Geochemical Characterization of Drill Cuttings to Improve Facies Classification Schemes, Refine Depositional Models, and Serve as a Predictive Tool of Rock Properties in the Delaware Basin. In 2019 AAPG Annual Convention and Exhibition. <https://www.searchanddiscovery.com/abstracts/html/2019/ace2019/abstracts/2232.html>
6. Eliason, C., L. Hudson, Watts, T., **Garza, H.**, and Clarke, J.A. (2016) Exceptional Preservation and the fossil record of tetrapod integument. Geological Society of America Abstracts with Programs. Vol. 48, No. 7, ISSN 0016-7592. <https://doi.org/10.1130/abs/2016AM-283797>
7. Eliason, C., L. Hudson, Watts, T., **Garza, H.**, and Clarke, J.A. (2016) Exceptional Preservation and the fossil record of tetrapod integument. Joint Annual Conference of the Society for the Study of Evolution, the Society of Systematic Biologists, and the American Society of Naturalists, Austin, TX.
8. **Garza, H.**, Frebourg, G. (2015) Study of small-scale elemental lateral variability in the Eagle Ford Formation using Ultra-High Frequency Handheld X-RAY Fluorescence (XRF) dataset. Bureau of Economic Geology (Annual Mudrock Systems Research Laboratory Meeting), Austin, TX

## **FIELDWORK**

2019	Egypt
2018	West Texas, Permian Basin
2017	North Dakota
2017	Patagonia, Chile
2016	Field Camp locations in TX, NM, CO, UT, WY, MT, ID
2012-2016	Numerous field trips and fieldwork projects in Texas

## **PROFESSIONAL AFFILIATIONS & MEMBERSHIPS**

Geological Society of America (GSA)                      American Geophysical Union (AGU)  
Clay Mineral Society (CMS)

## **OTHER SKILLS**

Languages: English and Spanish