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Education Ph.D. Candidate, Geological Sciences 2020
The University of Texas at Austin (expected)
Ph.D. Advisors: Terrence Quinn & Judson Partin

Sc.B., Geology-Chemistry with Honors 2015
Brown University

Fellowships & Awards National Science Foundation Graduate Research Fellowship 2015-2020
Jackson School of Geosciences Graduate Fellowship 2015-2016
Early-Career Graduate Best Poster Award, Jackson School of Geosciences Student Research Symposium 2016
Department of Earth, Environmental and Planetary Sciences Senior Award, Brown University 2015
Undergraduate Teaching & Research Award, Brown University 2012-2013

Research Interests Paleoclimatology, paleoceanography, tropical climate variability, stable isotope geochemistry

Peer-Reviewed Publications

In Review

1. **Lawman, A.E.**, Quinn, T.M, Partin, J.W., Thirumalai, K., Taylor, F.W., Wu, C.-C., Shen, C.-C. A century of reduced ENSO variability during the Medieval Climate Anomaly, *Nature Communications* (In Review)

Presentations

† - Presenting Author

9. **A.E. Lawman**[†], J.W. Partin, P. Di Nezio, S. Dee, T.M. Quinn, C. Casadio, K. Thirumalai, M. Puy, F.W. Taylor, C. Karamperidou, M. Inoue, X. Kong, H. Cheng, R.L. Edwards, C.-C. Wu, C.-Y. Huang, C.-C. Shen, *Using Data and Models to Quantify Uncertainties in Coral Reconstructions: Implications for Paleo-ENSO Variability*, Abstract GC42D-08 presented at the 2018 American Geophysical Union Fall Meeting; Washington D.C., December 2018 (Talk).

8. **A.E. Lawman**[†], T. Quinn, J. Partin, P. Di Nezio, K. Thirumalai, F. Taylor, C.-C. Wu, C.-C. Shen, & the paleo-ENSO working group. *Reconstructing paleo-ENSO variability using geochemical proxies from corals*, presented at the UT Austin Institute for Geophysics seminar series; Austin, TX, November 2018 (Talk).

7. K.J. Gomez, T. Sun, **A.E. Lawman**, P. Di Nezio, T. Shanahan, N. Piatrunia, C. Sun, X. Wu. *Tropical Hydroclimate Change during Heinrich Stadial 1: An Integrative Proxy-model Synthesis*, presented at the 2018 Goldschmidt Conference; Boston, MA, August 2018 (Poster).

6. **A.E. Lawman**[†], T.M. Quinn, J.W. Partin, F.W. Taylor, K. Thirumalai, C.-C. Wu, and C.-C. Shen, *Reconstructing Tropical Southwest Pacific Climate Variability and Mean State Changes at Vanuatu during the Medieval Climate Anomaly using Geochemical Proxies from Corals*, Abstract PP42A-08 presented at the 2017 American Geophysical Union Fall Meeting; New Orleans, Louisiana, December 2017 (Talk).

Link to AGU On-Demand:

<https://www.youtube.com/watch?v=l-nhgXxzut4&feature=youtu.be&t=5532>

5. T. Sun, **A.E. Lawman**[†], T. Shanahan, P. Di Nezio, K. Gomez, N. Piatrunia, C. Sun, X. Wu, M. Kageyama, U. Merkel, B. Otto-Bleisner, A. Abe-Ouchi, G. Lohman, J. Singarayer, X. Zhang, *Tropical Hydroclimate Change during Heinrich Stadial 1: An Integrative Proxy-Model Synthesis*, Abstract PP33A-1318 presented at the 2017 American Geophysical Union Fall Meeting; New Orleans, Louisiana, December 2017 (Poster).

4. **A.E. Lawman**[†], T. Quinn, J. Partin, K. Thirumalai, F. Taylor, C.-C. Wu, C.-C. Shen, *ENSO variability from corals over the last millennia*, presented at the Community Earth System Model Paleoclimate Working Group Meeting; Austin, TX, February 2018 (Invited talk).

<http://www.cesm.ucar.edu/events/wg-meetings/2018/presentations/paleowg/lawman.pdf>

3. **A.E. Lawman**[†], T.M. Quinn, J.W. Partin, F.W. Taylor, K. Thirumalai, C.-C. Wu, and C.-C. Shen, *A Coral-based Reconstruction of Interannual Climate Variability at Vanuatu during the Medieval Climate Anomaly (950-1250 CE)*, Presented at the 2017 Graduate Climate Conference; Woods Hole, Massachusetts, November 2017 (Talk).

2. **A.E. Lawman**[†], T.M. Quinn, J.W. Partin, F.W. Taylor, K. Thirumalai, C.-C. Wu, and C.-C. Shen, *A Coral-based Reconstruction of Interannual Climate Variability at Vanuatu during the Medieval Climate Anomaly (950-1250 CE)*, presented at the 2017 Jackson School of Geosciences Research Symposium; Austin, Texas, February 2017 (Poster).

1. **A.E. Lawman**[†], T.M. Quinn, J.W. Partin, F.W. Taylor, K. Thirumalai, C.-C. Wu, and C.-C. Shen, *A Coral-based Reconstruction of Interannual Climate Variability at Vanuatu during the Medieval Climate Anomaly (950-1250 CE)*, Abstract PP52A-07 presented at the 2016 American Geophysical Union Fall Meeting; San Francisco, California, December 2016 (Talk).

Workshops & Career Development	The Urbino Summer School in Paleoclimatology (USSP) The University of Urbino: Past Global Change and Modeling Techniques Course focused on the analysis of the long-term carbon cycling and its implications in the understanding of present and future climates	July 2017
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Laboratory Experience	Laboratory Manager Analytical Laboratory for Paleoclimate Studies Jackson School of Geosciences, University of Texas at Austin Instrumentation Stable Isotope Ratio Mass Spectrometry: Thermo Scientific MAT 253 and Delta V Plus; Kiel IV Carbonate Device Trace Metal Geochemistry: Perkin-Elmer Optima 8300 ICP-OES Coral Drilling/Sampling	2015-present
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Field Experience	Gulf of Mexico Research Cruise USGS Paleoclimate Proxy Calibration Project sediment trap deployment and CTD cast	Nov. 2015
	UT Austin Marine Geology & Geophysics Field Course Received hands-on instruction in the collection and processing of marine geological and geophysical data including high-resolution air gun and streamer seismic reflection, CHIRP seismic reflection, multibeam bathymetry, sidescan sonar, and sediment coring	May 2017

Students Mentored	Robert Domeyko, Graduate Student, UT Austin	2018
	Joseph Arias, Undergraduate, UT Austin	2018
	Brooke Kopecky, Undergraduate, UT Austin	2016-present
	Anthony Krupa, Undergraduate, UT Austin	2016-2018
	Michael Lis, Undergraduate, UT Austin	2016-2017
	April Trevino, Undergraduate, UT Austin	2015-2017

Outreach	Geoscience Empowerment Network, UT Austin <i>A graduate student/faculty group designed to promote gender diversity in the geosciences</i>	2018
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GeoFORCE graduate student mentor, UT Austin 2015-present
*A mentoring program to help undergraduate students from
rural/underrepresented regions of Texas transition and adjust to college*

**Professional
Affiliations** American Geophysical Union
Sigma Xi Scientific Research Society
