

## JOSHUA C. BREGY

**Assistant Professor**  
**School of Civil and Environmental Engineering and Earth Sciences**  
**Clemson University**

### CONTACT INFORMATION

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### EDUCATION

**2021 Ph.D. (dual), Earth and Atmospheric Sciences and Geography**, Indiana University

Geography Advisor: Dr. Justin Maxwell

Earth and Atmospheric Sciences Advisor: Dr. Brian Yanites.

**2016 M.Sc., Marine Science (Geological Oceanography)**, University of Southern Mississippi

Advisor: Dr. Davin Wallace

**2013 B.Sc., Environmental Sciences; B.A., Spanish; Honors Interdisciplinary Studies minor**,

University of Central Arkansas

### APPOINTMENTS

2023–present Assistant Professor, School of Civil and Environmental Engineering and Earth Sciences, Clemson University

2022–present Summer Program Faculty, Dauphin Island Sea Laboratory (DISL)

2021–2022 Postdoctoral Researcher, Department of Geography, Indiana University

2017–2020 Research/Teaching Assistant, Department of Geography, Indiana University

2013–2016 Research/Teaching Assistant, Department of Marine Sciences, University of Southern Mississippi

2010–2013 Research Assistant, Department of Biology and Department of Geography, University of Central Arkansas

### PEER-REVIEWED PUBLICATIONS

1. Wallace, E., Dee, S., **Bregy, J.C.**, Emanuel, K. Multiproxy comparison of tree-ring records with sediment based coastal overwash records: a paleotempestology proof of concept study with proxy system modeling. *Paleoceanography and Paleoclimatology*, 39(9), e2024PA004870, doi: [10.1029/2024PA004870](https://doi.org/10.1029/2024PA004870).

2. King, K. E., and Coauthors, 2024. Reconstructed late summer maximum temperatures for the southeastern United States from tree ring blue intensity. *Geophysical Research Letters*, 51(13), e2024GL109099, doi: [10.1029/2024GL109099](https://doi.org/10.1029/2024GL109099).
3. Harley, G.L., Therrell, M.D., Maxwell, J.T., Bhuta, A., **Bregy, J.C.**, Heeter, K.J., and Coauthors, 2023. The Longleaf Tree-Ring Network: reviewing and expanding the utility of *Pinus palustris* Mill. dendrochronological data. *Progress in Physical Geography: Earth and Environment*, doi: [10.1177/03091333221147652](https://doi.org/10.1177/03091333221147652)
4. Maxwell, J.T., Harley, G.L., Tucker, C.S., Galuska, T., Ficklin, D.L., **Bregy, J.C.**, and Coauthors, 2022. 1,100-year reconstruction of baseflow for the Santee River, South Carolina, USA reveals connection to the North Atlantic subtropical high. *Geophysical Research Letters*, 49(22), e2022GL100742, doi: [10.1029/2022GL100742](https://doi.org/10.1029/2022GL100742).
5. Tucker, C.S., Pearl, J.K., Elliott, E.A., **Bregy, J.C.**, Friedman, J.M., Therrell, M.D., 2022. Baldcypress false ring formation linked to summer hydroclimatic extremes in the southeastern United States. *Environmental Research Letters*, 17(11), doi: [10.1088/1748-9326/ac9745](https://doi.org/10.1088/1748-9326/ac9745).
6. **Bregy, J.C.**, Maxwell, J.T., Robeson, S.M., Harley, G.L., Elliott, E.A., Heeter, K.J., 2022. US Gulf Coast tropical cyclone precipitation influenced by volcanism and the North Atlantic subtropical high. *Communications Earth and Environment*, 3(1), 1–11, doi: [10.1038/s43247-022-00494-7](https://doi.org/10.1038/s43247-022-00494-7).
7. Maxwell, J.T., **Bregy, J.C.**, Robeson, S.M., Knapp, P.A., Soulé, P.T., Trouet, V., 2021. Recent increases in tropical cyclone precipitation extremes over the US east coast. *Proceedings of the National Academy of Sciences USA*, 118(41), doi: [10.1073/pnas.2105636118](https://doi.org/10.1073/pnas.2105636118).
8. Therrell, M., Elliott, E., Meko, M., **Bregy, J.C.**, Tucker, C., Harley, G.L., Maxwell, J., Tootle, G., 2020. Streamflow variability and false ring formation in bald cypress (*Taxodium distichum*). *Forests*, 11, doi: [10.3390/f11101100](https://doi.org/10.3390/f11101100).
9. Maxwell, J.T., Harley, G.L., Matheus, T.J., Strange, B.M., Van Aken, K., Au, T.F., **Bregy, J.C.**, 2020. Sampling density and date influence spatial representation of tree-ring reconstructions. *Climate of the Past*, 16: 1901–1916, doi: [10.5194/cp-16-1901-2020](https://doi.org/10.5194/cp-16-1901-2020).
10. **Bregy, J.C.**, Maxwell, J.T., Robeson, S.M., Ortegren, J.T., Soulé, P.T., Knapp, P.A., 2020. Spatio-temporal variability of tropical cyclone precipitation using a high-resolution gridded (0.25°x0.25°) dataset for the eastern United States, 1948–2015. *Journal of Climate*, 33(5), 1803–1819, doi: [10.1175/JCLI-D-18-0885.1](https://doi.org/10.1175/JCLI-D-18-0885.1).
11. Khider, D., and Coauthors, 2019. PaCTS 1.0: a crowdsourcing reporting standard for paleoclimate data. *Paleoceanography and Paleoclimatology*, 34, 1570–1596, doi: [10.1029/2019PA003632](https://doi.org/10.1029/2019PA003632).
12. Yanites, B.J., Mitchell, N.A., **Bregy, J.C.**, Carlson, G.A., Cataldo, K., Holahan, M., Johnston, G.H., Nelson, A., Valenza, J., Wanker, M., 2018. Landslides control the spatial and temporal variation of channel width in southern Taiwan: implications for landscape evolution and cascading hazards in steep, tectonically active landscapes. *Earth Surface Processes and Landforms*, 43: 1782–1797, doi: [10.1002/esp.4353](https://doi.org/10.1002/esp.4353).
13. **Bregy, J.C.**, Wallace, D.J., Totten-Minzoni, R., Cruz, V., 2018. 2500-year paleotempestological record of intense storms for the Northern Gulf of Mexico, United States. *Marine Geology*, SI: Geological Records of Extreme Wave Events, 26–42, doi: [10.1016/j.margeo.2017.09.009](https://doi.org/10.1016/j.margeo.2017.09.009).

## TECHNICAL PUBLICATIONS

1. **Bregy, J.C.**, Doiron, K., Lightfoot-Austin, D., Schorr, M., 2020. *Meteorological Hazards of Mexico*. Pp. 1–42. Submitted to the United States embassy in Mexico.

## SUBMITTED MANUSCRIPTS

1. **Bregy, J.C.**, Maxwell, J.T., Robeson, S.M., Harley, G.L., Trouet, V. Hydroclimatic patterns, drivers, and shifting extremes in the western flank of the North Atlantic subtropical high since 1140 CE. *Accepted pending revisions: Science Advances*.
2. Sánchez-Murillo, R., and Coauthors. Stable isotope tempestology of tropical cyclones across the North Atlantic and Eastern Pacific Ocean basins. *Accepted pending minor revisions: Annals of the New York Academy of Sciences*.
3. Herrera, D. A., Domínguez, C., Centella, A., Sánchez-Murillo, R., Pons, D., Hidalgo, H., Bezanilla, A., Sierra-Lorenzo, M., and **Bregy, J. C.** Tropical cyclones modulate drought characteristics in the Hurricane Region of the Americas. *Submitted to: Nature Communications*.

## GRANTS

1. SC NASA EPSCoR – Research Grant Program (\$35K): “Estimating and Reconstructing the Frequency and Magnitude of Fluvial Flooding from Tropical Cyclones.” Total Amount: \$32,577.00. Dates: 05/07/2024–present.
2. Clemson University–Major Research Instrumentation: “Acquisition of an Isotope Ratio Mass Spectrometer, Gas Bench, and Elemental Analyzer for the Adaptation to Climate Change.” Total Amount: \$441,120.00. Dates: 01/01/2023–06/30/2023.
3. NSF Paleo Perspectives on Climate Change AGS-2102888, AGS-2102886, and AGS-2102938: “Reconstructing Tropical Cyclone Precipitation throughout the Southeastern United States.” Total Amount: \$492,973.00 (Indiana University portion: \$258,774.00). Dates: 08/01/2021–present. (Co-authored; not listed as co-PI due to graduate student status.)
4. NSF Paleo Perspectives on Climate Change AGS-2103115: “Integrating Multiproxy Records of Tropical Cyclone Activity over the Last Millennia to Contextualize 21<sup>st</sup> (twenty-first) Century Events in the Northern Gulf of Mexico.” Total Amount: \$327,532.00. Dates: 07/15/2021–present. (Co-authored; not listed as co-PI due to graduate student status.)

## INVITED PRESENTATIONS

Underlined name indicates presenter. \* indicates poster and † indicates talk

1. **Bregy, J.C.**, 2023. Paleo-Perspectives on Hydroclimatic Variability and Extremes in the Southeast US: the Role of Tropical Cyclones and the Bermuda High. Fall Seminar Series, Department of Ocean and Earth Sciences, Old Dominion University. †

2. **Bregy, J.C.**, 2023. Paleo-Perspectives on Hydroclimatic Variability and Extremes in the Southeast US: the Role of Tropical Cyclones and the Bermuda High. Fall Seminar Series, Department of Earth and Environmental Sciences, University of Texas, Arlington. †
3. **Bregy, J.C.**, 2023. Biological and Geological Records of Gulf Coast Paleohurricanes. Department of Biology Spring Seminar Series, Department of Biology, University of South Alabama. †
4. **Bregy, J.C.**, Maxwell, J.T., Harley, G.L., Elliott, E.A., 2021. Water over the bridge: can we connect tree rings and overwash deposits to understand regional tropical cyclone variability? *European Geophysical Union Annual Meeting*, Virtual. †

## PRESENTATIONS AT PROFESSIONAL MEETINGS

Underlined name indicates presenter. \* indicates poster and † indicates talk.

1. Sánchez-Murillo, R., and Coauthors, 2024. High-frequency stable isotope tempestology of tropical cyclones across the Atlantic, Caribbean Sea, Gulf of Mexico, and eastern tropical Pacific Ocean basins. *Goldschmidt*, Chicago, Illinois. †
2. **Bregy, J.C.**, Maxwell, J.T., Robeson, S.M., Harley, G.L., Trouet, V., 2024. Variations in the western flank of the North Atlantic subtropical high since 1140 CE: extremes, hydroclimate patterns, and volcanic forcing. *Meeting of the Southeastern Section of the Geological Society of America*, Asheville, North Carolina. †
3. Thornton, L., Elliott, E.A., **Bregy, J.C.**, 2023. Does size matter? Impact of barrier island elevation and width on preserved paleotempestites across the northern Gulf of Mexico. *American Geophysical Union Fall Meeting*, San Francisco, California.\*
4. Elliott, E.A., McKee, B.A., Rodriguez, A.B., **Bregy, J.C.**, 2023. Illuminating the impact of episodic events on estuarine sediment flux using modern storm analogs preserved in fine-grained deposits. *American Geophysical Union Fall Meeting*, San Francisco, California.\*
5. Friedman, J., Elliott, E.A., Tucker, C., **Bregy, J.C.**, Therrell, M.D., Pearl, J.K., 2023. Stable oxygen isotopes as a proxy for climatic extremes in *Taxodium distichum* tree rings. *American Geophysical Union Fall Meeting*, San Francisco, California.\*
6. **Bregy, J.C.**, Maxwell, J.T., Robeson, S.M., Harley, G.L., Trouet, V., 2022. Extremes and volcanically driven changes in the western flank of the Bermuda High since the 12th century. *American Geophysical Union Fall Meeting*, Chicago, Illinois. †
7. Friedman, J., Elliott, E.A., Tucker, C., **Bregy, J.C.**, Pearl, J., Therrell, M., 2022. Reconstructing tropical cyclone precipitation through oxygen isotope ratios in baldcypress (*Taxodium distichum*). *American Geophysical Union Fall Meeting*, Chicago, Illinois.\*
8. Tucker, C., Elliott, E.A., **Bregy, J.C.**, Pearl, J., Therrell, M., Friedman, J., 2022. Baldcypress false ring formation linked to summer hydroclimatic extremes in the southeastern United States. *American Geophysical Union Fall Meeting*, Chicago, Illinois. †
9. Elliott, E.A., Monica, S., **Bregy, J.C.**, Wallace, D.J., Friedman, J., Totten, R., Lehrmann, A., Tucker, C., 2022. Using paleotempestology and barrier island geomorphology to characterize tropical cyclone

activity during the late Holocene along the northern Gulf Coast of the United States. *American Geophysical Union Fall Meeting*, Chicago, Illinois.\*

10. Wallace, E.J., Dee, S., **Bregy, J.C.**, Emanuel, K., 2022. Evaluating uncertainties in latewood tree ring reconstructions of tropical cyclone precipitation using statistically/dynamically downscaled storms. *American Geophysical Union Fall Meeting*, Chicago, Illinois.\*
11. **Bregy, J.C.**, Maxwell, J.T., Robeson, S.M., Harley, G.L., Elliott, E.A., Heeter, K.J. 2021. Changes in tropical cyclone rainfall driven by volcanism over the last 500 years. *American Geophysical Union Fall Meeting*, New Orleans, Louisiana. †
12. Elliott, E.A., Lehrmann, A., Totten Minzoni, R., **Bregy, J.C.**, Wallace, D.J., Tucker, C., 2021. Archives of the extreme: building multi-proxy records to characterize tropical cyclone activity and environmental impacts in the northern Gulf of Mexico. *American Geophysical Union Fall Meeting*, New Orleans, Louisiana.\*
13. Tucker, C., Therrell, M.D., Elliott, E.A., **Bregy, J.C.**, Pearl, J.K., 2021. False rings in baldcypress contain clues of past hurricanes in the southeastern United States. *American Geophysical Union Fall Meeting*, New Orleans, Louisiana.\*
14. Maxwell, J.T., Galuska, T., Harley, G.L., Ficklin, D.L., **Bregy, J.C.**, Au, T.F., Heeter, K.J., Lockwood, B., Elliott, E.A., Therrell, M.D., 2021. 1100-year reconstruction of baseflow indicates that high baseflow extremes are decreasing for the Santee River, South Carolina, USA. *American Geophysical Union Fall Meeting*, New Orleans, Louisiana.\*
15. **Bregy, J.C.**, Maxwell, J.T., Harley, G.L., Robeson, S.M., 2021. Reconstructing and quantifying changes in the western flank of the North Atlantic subtropical high since 1430 CE using a multi-species tree-ring network. *American Geophysical Union Fall Meeting*, New Orleans, Louisiana.\*
16. Barnes, R., Basu, N., Becker, P., **Bregy, J.C.**, Gasparini, N., Myers, D., 2021. Town hall: Twitter in the sciences. *American Geophysical Union Fall Meeting*, New Orleans, Louisiana. †
17. Elliott, E.A., **Bregy, J.C.**, Tucker, C.S., Lehrmann, A., Minzoni, R.T., Wallace, D.J., Therrell, M.D., 2021. Recording storms – Utilizing multiproxy records to identify and characterize tropical cyclone activity along the northern Gulf of Mexico. *Geological Society of America Fall Meeting*, Portland, Oregon. †
18. **Bregy, J.C.**, Maxwell, J.T., Harley, G.L., Elliott, E.A., Robeson, S.M., Heeter, K.J., 2020. 500 years of tropical cyclone precipitation variability along the Gulf Coast: multidecadal patterns, trends, and climate connections. *American Geophysical Union Fall Meeting*, Virtual.\*
19. **Bregy, J.C.**, Maxwell, J.T., Harley, G.L., 2019. A ~500-year reconstruction of seasonal tropical cyclone precipitation estimates along the Gulf Coast, USA. *American Geophysical Union Fall Meeting*, San Francisco, California.\*
20. **Bregy, J.C.**, Wallace, D.J., Maxwell, J.T., 2019. Cooking up a storm: a recipe for the North Atlantic hurricane climate in only ~100 Ma. *American Geophysical Union Fall Meeting*, San Francisco, California.\*

21. Maxwell, J.T., **Bregy, J.C.**, Knapp, P.A., Soule, P.T., 2019. Increasing tropical cyclone precipitation extremes along the southeast Atlantic Coast over the last 350 years. *American Geophysical Union Fall Meeting*, San Francisco, California.<sup>†</sup>
22. Roberts, T., Elliott, E.A., Therrell, M.D., Lampman, C.R., Maxwell, J.T., Harley, G.L., **Bregy, J.C.**, 2019. Utilizing anatomical anomalies in *Taxodium distichum* to reconstruct tropical cyclone activity along the northern Gulf of Mexico. *American Geophysical Union Fall Meeting*, San Francisco, California.\*
23. Knapp, P.A., Soule, P.T., Maxwell, J.T., Ortegren, J.T., **Bregy, J.C.**, 2019. North Atlantic tropical cyclone precipitation changes post volcanic eruptions: evidence from North Carolina longleaf pine (*Pinus palustris* Mill.): AD 1770–2000. *Annual Meeting of the American Association of Geographers*, Washington, D.C.\*
24. **Bregy, J.C.**, Maxwell, J.T., and Harley, G., 2018. Latewood radial growth as a proxy for reconstructing tropical cyclone precipitation along the Gulf Coast, United States. *American Geophysical Union Fall Meeting*, Washington, D.C.\*
25. **Bregy, J.C.**, Maxwell, J.T., Robeson, S.M., 2018. North Atlantic tropical cyclone precipitation and climate interactions in the eastern United States, 1948–2015. *American Association of Geographers Annual Meeting*, New Orleans, Louisiana.<sup>†</sup>
26. Soule, P.T., Knapp, P., Maxwell, J.T., **Bregy, J.C.**, 2018. An update to a multi-century reconstruction of tropical cyclone precipitation in the North Carolina coastal region using the tree-ring record of longleaf pine. *American Association of Geographers Annual Meeting*, New Orleans, Louisiana.\*
27. **Bregy, J.C.**, Maxwell, J.T., Robeson, S.M., 2017. North Atlantic tropical cyclone precipitation and climate interactions using a high-resolution dataset for the eastern United States, 1948–2015. *American Geophysical Union Fall Meeting*, New Orleans, Louisiana.\*
28. Yanites, B.J., **Bregy, J.C.**, Carlson, G., Cataldo, K., Holahan, M., Johnston, G., Mitchell, N.A., Nelson, A., Valenza, J., Wanker, M., 2017. Landslides control the spatial and temporal variation of channel width in southern Taiwan: implications for landscape evolution and cascading hazards in steep, tectonically active landscapes. *American Geophysical Union Fall Meeting*, New Orleans, Louisiana.<sup>†</sup>
29. Yanites, B.J., **Bregy, J.C.**, Carlson, G., Cataldo, K., Holahan, M., Johnson, G.H., Mitchell, N., Nelson, A., Valenza, J., Wanker, M., 2017. Landslides control the spatial and temporal variation of channel morphology in southern Taiwan: implications for landscape evolution in steep, tectonically active landscapes. *Geological Society of America Fall Meeting*, Seattle, Washington.<sup>†</sup>
30. **Bregy, J.C.**, Wallace, D.J., 2016. Paleotempestological record of intense storms for the Northern Gulf of Mexico, United States. *American Geophysical Union Fall Meeting*, San Francisco, California.<sup>†</sup>
31. **Bregy, J.C.**, Passe-Smith, M.S., 2013. Using GIS to determine mean tornado direction and path length during different ENSO events. *ESRI International User Conference*, San Diego, California.\*

## TECHNICAL PROFESSIONAL PRESENTATIONS

1. **Bregy, J.C.**, Doiron, K., Lightfoot-Austin, D., Schorr, M., 2020. Meteorological hazards in Mexico. *Presented to the United States embassy in Mexico.* †

## ACADEMIC PRESENTATIONS

1. Indiana University—Department of Geography and Department of Earth and Atmospheric Sciences doctoral defense: *Reconstructing multidecadal to multicentennial variations in the tropical cyclone hydroclimate and its climatic controls in the Southeastern United States.* (2021)
2. Indiana University—Department of Geography Fall Colloquium Series/dissertation proposal presentation: *Understanding multidecadal to multicentennial variations in the tropical cyclone hydroclimate and its controls in the southeastern United States.* (2019)
3. 2018–2019 IU/WonderLab Summer Science Institute for Teachers: “Understanding and preparing for environmental change.” Presented my previous and current research on paleotempestology and modern tropical cyclones. (2018–2019)
4. University of Southern Mississippi—Department of Marine Science Master of Science thesis defense: *Determining the viability of recent storms as modern analogues for north-central Gulf of Mexico paleotempestology through sedimentary analysis and storm surge reconstruction.* (2016)
5. University of Southern Mississippi—Graduate Student Symposium: *Determining the viability of recent storms as modern analogues for north-central Gulf of Mexico paleotempestology through sedimentary analysis and storm surge reconstruction.* (2016)
6. University of Southern Mississippi Three Minute Thesis competition: *Using modern storms to identify prehistoric storms.* Finalist. (2015)
7. University of Southern Mississippi—Department of Marine Science Fall Seminar Series: *Determining the viability of recent storms as modern analogues for north-central Gulf of Mexico paleotempestology through sedimentary analysis and storm surge reconstruction.* Presentation over my prospectus for the spot reserved for students to give seminars. (2015)
8. University of Central Arkansas—Honors College senior thesis defense: *An in-depth study on lightning-produced ground-level NO<sub>x</sub> and other influencing meteorological factors during the lifecycle of a thunderstorm.* (2013)
9. University of Central Arkansas—Department of Foreign Languages: Spanish capstone defense: *La presencia de ecología en la cultura costarricense.* (2013)
10. University of Central Arkansas—College of Natural Sciences and Mathematics Student Research Symposium: *Mussel biodiversity and distribution in the Sylamore Ranger District in Arkansas.* (2013)

## SCHOLARSHIPS, HONORS, AND AWARDS

1. Department of Geography, Indiana University: Founder’s Award for Outstanding Paper in Climatology, 2020–2021.

2. College of Arts and Sciences, Indiana University: Dissertation Research Fellowship, 2020–2021. Award amount: \$20,000
3. Department of Geography, Indiana University: Lester Spicer Poster Award, 2020.
4. Department of Geography, Indiana University: Stephen S. Visher Award for Outstanding Paper in Climatology, 2018–2019.
5. College of Arts and Sciences, Indiana University: College of Arts and Sciences Fall Travel Award, 2017.
6. Department of Geography, Indiana University: Graduate Student Summer Fellowship Award, 2017–2018.
7. Department of Geography, Indiana University: Graduate Student Fellowship Award, 2016–2017.
8. University of Southern Mississippi Three Minute Thesis: Finalist, 2015.
9. Arkansas Lottery Scholarship, 2010–2013.
10. Norbert O. Schedler Honors College, University of Central Arkansas: Honors College Full Scholarship, 2009–2013.

## TEACHING EXPERIENCE

### Instructor of Record

2023–present	GEOL 2300: Our Global Ocean: A Survey of Oceanography	Clemson University
2022–present	Hurricanes of the Gulf Coast	DISL
2019–2020	GEOG 305: Paleoclimates	Indiana University
2018–2019	GEOG 109: Introduction to Weather and Climate	Indiana University

### Teaching Assistant

2019	GEOG 107: Physical Systems of the Environment	Indiana University
2017–2018	GEOG 109: Introduction to Weather and Climate (lab)	Indiana University
2013–2016	MAR 151L: Introduction to Marine Science (lab)	University of Southern Mississippi
2012–2013	GIS teaching assistant (all courses)	University of Central Arkansas
2011–2013	Environmental education program	University of Central Arkansas
2010–2011	Honors College mentor (philosophy of science, deep ecology and environmentalism, Taoism, Buddhism, and Confucianism)	University of Central Arkansas

## PROGRAMMING AND SOFTWARE EXPERIENCE



ArcGIS, ARSTAN, COFECHA, CooRecorder, Malvern Mastersizer 3000, MATLAB, PCReg, PPR, R, WinDendro

### SCIENTIFIC SERVICE

**Meeting Sessions Convened:** AGU Fall Meeting 2022 – Novel Approaches to Reconstructing Extreme Events and Hydrological Hazards During the Holocene and Common Era; AGU Fall Meeting 2023 – Lessons from the Past: Extreme Events and Hydrological Hazards During the Holocene and Common Era.

**Peer reviewer:** *GCAGS Journal, Paleoceanography and Paleoclimatology, Geophysical Research Letters, Bulletin of the American Meteorological Society, npj Climate and Atmospheric Science, Communications Earth and Environment, Earth Interactions, Climate Research, Marine Geology*

**Member:** *American Geophysical Union, European Geosciences Union, Past Global Changes (Floods Working Group, PALSEA, DAPS, Iso2k), International Union for Quaternary Research, Geological Society of America*

**Outreach:** Science Fest (2016, 2019); Skype-a-Scientist (2019–2020)

**Media appearances:** *Climate Scientists* podcast (“Disability in the Earth System Sciences” series; 2020); *Climate Scientists* podcast (2021); *Science... Sort Of* podcast (“American Geophysical Union fall meeting” series; 2021); *The Washington Post* (2024); *The Post and Courier* (2024a); *The Post and Courier* (2024b).

### LANGUAGE FLUENCY

English (native language; fluent)

Spanish (fluent)