ROWAN C. MARTINDALE

CURRICULUM VITAE

ASSOCIATE PROFESSOR (INVERTEBRATE PALEONTOLOGY)
AT THE UNIVERSITY OF TEXAS AT AUSTIN

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RESEARCH INTERESTS

The overarching theme of my work is the connection between Earth and life through time, more precisely, understanding ancient (Mesozoic and Cenozoic) ocean ecosystems and the evolutionary and environmental events that shaped them. My research is interdisciplinary, (paleontology, sedimentology, biology, geochemistry, and oceanography) and focuses on: extinctions and carbon cycle perturbation events (e.g., Oceanic Anoxic Events, acidification events); marine (paleo)ecology and reef systems; the evolution of reef builders (e.g., coral photosymbiosis); exceptionally preserved fossil deposits (Lagerstätten); and geoscience education (gamification of educational activities).

ACADEMIC APPOINTMENTS

Associate Professor, University of Texas at Austin **September 2020 to Present**
Assistant Professor, University of Texas at Austin **August 2014 to August 2020**
Postdoctoral Researcher, Harvard University **August 2012 to July 2014**
Department of Organismic and Evolutionary Biology; Mentor: Dr. Andrew H. Knoll.

EDUCATION

Doctorate, University of Southern California **2007 to 2012**
Dissertation: "Paleoecology of Upper Triassic reef ecosystems and their demise at the Triassic-Jurassic extinction, a potential ocean acidification event."
Field of Study: Geological Sciences
Advisor: Dr. David J. Bottjer, degree conferred August 7th, 2012.

Bachelor of Science Honors Degree, Queen's University **2003 to 2007**
Geology major with a general concentration in Biology (Geological Sciences Medal Winner).

AWARDS AND RECOGNITION

Awards During Tenure at UT Austin

- *2024 Carolyn G. and G. Moses Knebel Teaching Award*: Teaching excellence in an upper-level undergraduate course in the Department of Earth and Planetary Sciences (UT Austin).
- *2019 National Science Foundation CAREER Award:* Awarded to candidates who are judged to have the potential to serve as academic role models in research and education.

AWARDS AND RECOGNITION (CONTINUED)

- *Best paper in 2019 for the journal "Papers in Palaeontology":* Selected as the best paper as judged by the journal's editorial board; awarded for scientific breadth, its importance, and the quality of presentation of data. doi: 10.1002/spp2.1252 (Awarded 2019).
- *2018 acknowledgement for support of students with disabilities*: Nominated by a student with disabilities as "a faculty who had positively contributed to [the student's] academic endeavors". Awarded a commemorative clock.
- *2017 Carolyn G. and G. Moses Knebel Teaching Award*: Teaching excellence in an introductory undergraduate course in the Department of Geological Sciences (UT Austin).
- *2017 Jackson School of Geosciences Outstanding Service Award*: Award for service above and beyond the level expected. *Note: shared with all female faculty in the department.*
- *2013 Outstanding Paper in Palaios award from SEPM:* Martindale et al. 2013 doi: 10.2110/paleo.2013.016 (Awarded 2015).

Graduate and Postdoctoral Awards

- *Canadian Society of Petroleum Geologists Graduate Thesis Award*: The best Ph.D. thesis from a Canadian university or dealing with a Canadian sedimentary/petroleum geology topic (Honorable Mention, 2012).
- *USC Ph.D. Achievement Award*: Awarded to five USC graduates for exceptional achievements as a doctoral student, including significant publications, job offers, major awards, and other markers of excellence (2012).
- *Best Student Presentation*: Awarded for the best oral presentation at the Southern California Geobiology Symposium (2011).
- *Departmental Teaching Assistant Award*: Awarded for excellence in teaching in a geology majors (core) class (Surficial Processes and Stratigraphic Systems, 2010) and in a general education class (Oceanography, 2011).

PEER-REVIEWED PUBLICATIONS

TOTAL = 63, H-INDEX = 25, I10-INDEX = 41 (34 SINCE 2020) [AS OF 09/2025]

GOOGLE SCHOLAR: https://scholar.google.com/citations?user=s58wgmsaaaaj&hl=en

ORCiD: https://orcid.org/0000-0003-2681-083X

NOTE: ** = UT GRADUATE STUDENT; § = UT POSTDOC, ‡ = UT UNDERGRADUATE STUDENT, ALL STUDENTS (UT OR ANOTHER INSTITUTION) IN ITALICS,* ***OA*** *= OPEN ACCESS.*

In Press

64. El Ouali, M., Kabiri, L., Essafraoui, B., Ben Bammou, M., Ait Lahssaine, I., Messaoudi, B., **Martindale, R.C.,** 2025. Inventory and quantitative assessment of Geosites and Geodiversity Sites of the Tinghir-Dades-Imilchil area (Morocco). *International Journal of Heritage and Parks*. 13 (1), 166-187.

    NB: Paper published in 2025 but retracted and resubmitted due to an editorial error.

63. *Sulbaran Reyes, B.S.‡***, **Martindale, R.C.**,** *Salgado Jauregui, E.*, Sinha, S.*, Williams, C.M.*,* Cooc, N. *In Press*, Factors that Promote Cooperation, Learning, and Engagement with Geoscience Concepts when Playing Educational Board Games in an Entry-Level College Paleontology Lab. *The Journal of Geoscience Education* (Research manuscript). doi: 10.1080/10899995.2024.2401749. ***Both authors contributed equally*

PEER-REVIEWED PUBLICATIONS (CONTINUED)

Published peer-reviewed papers

62. Smith, J.A., … **Martindale, R.C.,** ... et al. (>100 authors), 2025. Identifying the Big Questions in paleontology: A community-driven project. *Paleobiology.* 1-24. doi: 10.1017/pab.2025.10042 ***OA***
61. *Salgado Jauregui, E.**, Ellins, K., Henry, D., Gordon-Smith, D.A. **Martindale, R.C.,** 2025. A participatory decision-making strategy for geoconservation, implemented in Portland, Jamaica. *Geoheritage*. 17, 122. doi: 10.1007/s12371-025-01136-y ***OA***
60. Sylvester, Z., Stockli, D.F., Howes, N., Roberts, K., Malkowski, M.A, Poros, Z., **Martindale, R.C.,** and *Bai, W.‡*, 2025. Segmenteverygrain: A Python module for segmentation of grains in images. Journal of Open Source Software, 10(112), 1 7953. doi: 10.21105/joss.07953.
59. *Norris, L*.,* **Martindale, R.C.,** Satkoski, A., Lassiter, J.C. Fricke, H., 2025. Calcium isotopes reveal niche partitioning within the dinosaur fauna of the Carnegie Quarry, Morrison Formation. *Palaeogeography, Palaeoclimatology, Palaeoecology* 675, 113103. doi: 10.1016/j.palaeo.2025.113103.
58. Larina, E.§, Woodhouse, A., Swain, A., Lowery, C.M., **Martindale, R.C.,** Myers, C.E., 2025. Regional restructuring in planktic foraminifera communities through Pliocene-early Pleistocene climate variability. *Nature Communications.* **16**, 5056. doi: 10.1038/s41467-025-60362-8.
57. *Weiss, A.M.*,* Foster, W.J.§, Košir, A., Muscente, A.D.§, **Martindale, R.C.,** 2025. Shallow Marine, Benthic Ecosystems Show Compositional Shifts in Response to the Paleocene-Eocene Thermal Maximum (PETM) on the Adriatic Carbonate Platform. *Paleoceanography and Paleoclimatology.* 40, e2024PA005039. doi: 10.1029/2024PA005039 ***OA***
56. El Ouali, M., Essafraoui, B., Kabiri, L., Messaoudi, B., Ait Lahssaine, I., Krencker, F.N., **Martindale, R.C.,** Nutz, A., Bodin, S. 2025. Quantitative Assessment and Enhancement of 12 Sites of Geological Interest South of Midelt City (Tizi N'Talghemt, Central High Atlas, Morocco). *Geoheritage* **17**, 63. doi: 10.1007/s12371-025-01105-5
54. *Faulkner, K. ‡*, Lowery, C.M., **Martindale, R.C.,** Simpson, C., Fraass, A.J., 2025. Record of Foraminiferal Test Composition throughout the Phanerozoic. *Proceedings of the Royal Society B: Biological Sciences.* 292, 20250221. doi:10.1098/rspb.2025.0221. ***OA***
53. *Stone, T.*,* **Martindale, R.C.,** Bodin, S., Lathuilière, B., Krencker, F.N., *Fonville, T. ‡,* Kabiri, L., 2025. Ecological Differences in Upper Pliensbachian (Early Jurassic) Reef Communities Determined by Environmental Conditions in Carbonate Settings. *Journal of African Earth Sciences* 224, 105547 (20 pages). doi: 10.1016/j.jafrearsci.2025.105547
52. *Fonville, T.‡,* **Martindale, R.C.,** *Stone, T.*,* Septfontaine, M., Bodin, S., Krencker, F.N, Kabiri, L., 2024. Early Jurassic Benthic Foraminiferal Ecology from the Central High Atlas Mountains, Morocco. *Palaios*. 39 (8), 277–299. doi: 10.2110/palo.2023.026
51. **Martindale, R.C.,** *Sulbaran Reyes, B.S. ‡, Sinha, S.**, Cooc, N. 2024 "Reef Survivor": A new board game designed to teach college and university undergraduate students about reef ecology, evolution, and extinction. *Journal of Geoscience Education.* 72(1), 37-56. doi: 10.1080/10899995.2023.2221818. ***OA***

PEER-REVIEWED PUBLICATIONS (CONTINUED)

50. *Salgado Jauregui, E.**, Ellins, K., **Martindale, R.C.,** Henry, D., Gordon-Smith, D.A. 2024. Incorporating diverse voices in geoconservation in Portland, Jamaica. *The Geological Society Special Publications.* 543 (1), 9-24. doi: 10.1144/SP543-2022-283.
49. Killam, D., Das, S., **Martindale, R.C.,** Gray, K.E., Paytan, A., Junium, C.K. 2023. Photosymbiosis and nutrient utilization in giant clams revealed by nitrogen isotope sclerochronology. *Geochimica et Cosmochimica Acta*. 359, 165–175. doi: 10.1016/j.gca.2023.08.018
48. *Bogan, B.A. ‡,* **Martindale, R.C.,** Feldmann, R.M., Schweitzer, C.E., and Muscente, A.D.§, 2023. Morphological insights into the lobster genus *Uncina* Quenstedt, 1851 based on new material from the Ya Ha Tinda Konservat-Lagerstätte, Canada (Early Jurassic). *Palaeontologia Electronica*. 26(1): a11. https://doi.org/10.26879/1158. ***OA***
47. Muscente, A.D.§, *Vinnes, O., Sinha, S.*,* Schiffbauer, J.D., Maxwell, E.E., Schweigert, G. & **Martindale, R.C.,** 2023. What role does anoxia play in exceptional fossil preservation? Lessons from the taphonomy of the Posidonia Shale (Germany). *Earth-Science Reviews*, Earth-Science Reviews, 238, 104323. doi: 10.1016/j.earscirev.2023.104323.
46. *Stone, T.*,* **Martindale, R.C.,** *Fonville, T. ‡,* Lathuilière, B., Boivin, S., Vasseur, R., and Septfontaine, M., 2022, Assessment of a reef community from Lower Jurassic (Pliensbachian) strata in the Central High Atlas Mountains of Morocco. *Palaios*. 37 (11): 633-649. doi: 10.2110/palo.2022.010.
45. Muscente, A.D.§, **Martindale, R.C.,** Prabhu, A., Ma, X., Fox, P. Hazen, R.M., Knoll, A.H. 2022. Appearance and disappearance rates of Phanerozoic marine animal paleocommunities. *Geology*. 50 (3): 341–345. doi: 10.1130/G49371.1. ***OA***
44. *Salgado Jauregui, E.*,* **Martindale, R.C.,** Ellins, K., Reyes, E., *Weiss*, *A.M.**, 2022. Learning outcomes of the educational board game "Taphonomy: Dead and Fossilized", evaluated with high school learners in a summertime program. *The Journal of Geoscience Education.* 70(2). 176-194. doi: 10.1080/10899995.2021.1965828.
43. Foster, W.J.§, *Hirtz, J.A.‡,* Farrell, C., *Reistroffer, M.‡*, Twitchett, R.J., **Martindale, R.C.,** 2022. Bioindicators of severe ocean acidification are absent from the end-Permian mass extinction. *Scientific Reports.* 12, 1202. doi: 10.1038/s41598-022-04991-9. ***OA***
42. *Sinha, S.**, Muscente, A.D.§, Schiffbauer, J.D., Williams, M., Schweigert, G., **Martindale, R.C.,** 2021. Global controls on phosphatization of fossils during the Toarcian Oceanic Anoxic Event. *Scientific Reports.* 11, 24087. doi: 10.1038/s41598-021-03482-7. ***OA***
41. *Vasseur, R.,* Lathuilière, B., Lazăr, I., **Martindale, R.C.,** Bodin, S., Durlet, C. Major coral extinctions during the early Toarcian global warming event. *Global and Planetary Change.* 207. 103647. doi: 10.1016/j.gloplacha.2021.103647.
40. *Smith, B. P.**, *Cantine, M. D.*, Bergmann, K. D., *Ramos, E. J.**, **Martindale, R. C.,** & Kerans, C. 2021. Arid coastal carbonates and the Phanerozoic record of carbonate chemistry. AGU Advances, 2, e2021AV000386. doi: 10.1029/2021AV000386. ***OA***
39. **Martindale,** R.C., Holstein, D.M., Knowlton, N., Voss, J.D., Weiss, A.M.*, Correa, A.M.S. 2021. Editorial: "Gulf of Mexico Reefs: Past, Present, and Future". *Frontiers in Marine Science - Coral Reef Research*. 8:713058. doi: 10.3389/fmars.2021.713058. ***OA***

PEER-REVIEWED PUBLICATIONS (CONTINUED)

38. *Ettinger, N.P.*,* Larson, T.E., Kerans, C., Thibodeau, A.M., *Hattori, K.E.*, Kacur, S.M.‡,* **Martindale, R.C.,** 2021. Ocean acidification and photic-zone anoxia at the Toarcian Oceanic Anoxic Event: Insights from the Adriatic Carbonate Platform. *Sedimentology*. 68, 63–107. doi: 10.1111/sed.12786.

37. Fernandes, A.M., Abeyta, A., Mahon, R.C., **Martindale, R.C.,** Bergmann, K.D., Jackson, C., Present, T.M., Reano, D., Swanson, T., *Butler, K.*,* Brisson, S., Johnson, C., Mohrig, D., Blum, M.D., 2020. Enriching Lives within Sedimentary Geology: Actionable Recommendations for Making SEPM a Diverse, Equitable and Inclusive Society for All Sedimentary Geologists. *The Sedimentary Record*. 18(3): 4-12. doi: 10.2110/sedred.2020.3.4. ***OA***

36. Krencker, F. N., Fantasia, A., *Danisch, J.,* **Martindale, R.C.,** Kabiri, L., El Ouali, M., Bodin, S. 2020. Two-phased collapse of the shallow-water carbonate factory during the late Pliensbachian–Toarcian driven by changing climate and enhanced continental weathering in the Northwestern Gondwana Margin. *Earth-Science Reviews.* 208: 103254. doi: 10.1016/j.earscirev.2020.103254.

35. **Martindale, R.C.** and *Weiss*, *A.M.**, 2020 "Taphonomy: Dead and Fossilized": A new board game designed to teach college undergraduate students about the process of fossilization. *the Journal of Geoscience Education.* 68(3): 265-285. doi: 10.1080/10899995.2019.1693217. ***OA (second most downloaded article in 2020)***

34. Foster, W.J.§, Garvie, C.L., *Weiss, A.M.*,* Muscente, A. D.§, Aberhan, M., Counts, J.W., **Martindale, R.C.,** 2020. Resilience of marine invertebrate communities during the early Cenozoic hyperthermals. *Scientific Reports*. 10: 2176. doi: 10.1038/s41598-020-58986-5. ***OA***

33. Foster, W.J.§, Heindel, K., Richoz, S., Gliwa, J., Lehrmann, D., Baud, A., Kolar-Jurkovšek, T., Aljinovic, D., Jurkovšek, B., Korn, D., **Martindale, R.C.,** and Peckmann, J., 2020. Suppressed competitive exclusion led to the proliferation of Permian/Triassic boundary microbialites. *The Depositional Record*. 6(1): 62-74. doi: 10.1002/dep2.97. ***OA***

32. *Smith*, *B.P.*,* Larson. T.E., **Martindale, R.C.,** and Kerans, C. 2020. Impacts of basin restriction on geochemistry and extinction patterns: A case from the Guadalupian Delaware Basin, USA. *Earth and Planetary Science Letters.* 530: 115876. doi: 10.1016/j.epsl.2019.115876.

31. *Hattori, K.E.*,* Kerans, C., **Martindale, R.C.** 2019. Sequence stratigraphic and paleoecologic analysis of an Albian coral-rudist patch reef, Arizona, USA. *Palaios.* 34(12): 600-615. doi: 10.2110/palo.2019.052.

30. *Boivin, S., Vasseur, R.,* Lathuilière, B., Lazăr, I., Durlet, C., **Martindale, R.C.,** El Hmidi K., and Martini R. 2019. A little walk between Early Jurassic sponges and corals: A confusing morphological convergence. *Geobios.* 57: 1-24. doi: 10.1016/j.geobios.2019.10.001.

29. Dee, S.G., Torres, M.A., **Martindale, R.C.,** *Weiss*, *A.M.**, DeLong, K.L. 2019. The future of reef ecosystems in the Gulf of Mexico: insights from coupled climate model simulations and ancient hot-house reefs. *Frontiers in Marine Science - Coral Reef Research*. 6: 691. doi: 10.3389/fmars.2019.00691. ***OA***

PEER-REVIEWED PUBLICATIONS (CONTINUED)

28. Muscente, A.D.§, **Martindale, R.C.,** Schiffbauer, J.D., *Creighton, A.L.‡, Bogan, B.A.‡,* 2019. Taphonomy of the Lower Jurassic Konservat-Lagerstätte at Ya Ha Tinda (Alberta, Canada) and its Significance for exceptional fossil preservation during Oceanic Anoxic Events. *Palaios*. 34 (11): 515-541. doi: 10.2110/palo.2019.050.

27. Foster, W.J.§, Lehrmann, D., *Hirtz, J.‡, White, M. J.‡,* Yu, M., *Ji, L.* and **Martindale, R.C.,** 2019. Early Triassic Benthic Invertebrates from the Great Bank of Guizhou, South China: Systematic Palaeontology and Palaeobiology. *Papers in Palaeontology*. 5(4), 613-656. doi: 10.1002/spp2.1252. ***(2019 Best paper in Papers in Palaeontology)***

26. Foster, W.J. §, Lehrmann, D.J., Yu, M., **Martindale, R.C.** 2019. Facies selectivity of benthic invertebrates in a Permian/Triassic boundary microbialite succession: Implications for the "microbialite refuge" hypothesis. *Geobiology*. 17, 523–535. doi: 10.1111/gbi.12343.

25. *Vasseur, R., Boivin, S.,* Lathuilière, B., Lazăr, I., Durlet, C., **Martindale, R.C.,** Bodin, S., and Elhmidi, K. 2019. Lower Jurassic corals from Morocco with skeletal structures convergent with those of Paleozoic rugosan corals. *Palaeontologia Electronica.* 22.2.48A 1-32. doi: 10.26879/874. ***OA***

24. *Weiss, A.M.** and **Martindale, R.C**., 2019. Paleobiological traits that determined scleractinian coral survival and proliferation during the late Paleocene and early Eocene hyperthermals. *Paleoceanography and Paleoclimatology.* 34(2), 252-274. doi: 10.1029/2018PA003398. ***OA***

23. Kocurek, G., **Martindale, R.C**., *Day, M.*,* Goudge, T., *Mason, J.*, Cardenas, B.*, *Hassenruck-Gudip, H.*,* Kerans, C., *Petersen, E.I.*,* Mohrig, D., *Aylward, D.S.*, Nazworth, C.*,* and *Hughes, C.M.**, 2019. Antecedent aeolian dune topography as a control on carbonate and evaporite facies: Jurassic Todilto Formation, Ghost Ranch, New Mexico, USA. *Sedimentology*. 66(3), 808-837. doi: 10.1016/j.palaeo.2017.08.014.

22. *Brame, H.R.*,* **Martindale, R.C.,** *Ettinger, N.P.*,* Debeljak, I., *Vasseur, R.,* Lathuilière, B., Kabiri, L., and Bodin, S., 2019. Stratigraphic distribution and paleoecological significance of Early Jurassic (Pliensbachian-Toarcian) lithiotid-coral reefal deposits from the Central High Atlas of Morocco. *Palaeogeography, Palaeoclimatology, Palaeoecology.* 514, 813-837. doi: 10.1016/j.palaeo.2018.09.001.

21. **Martindale, R.C**., Foster W.J.§, and Velledits F., 2019. The survival, recovery, and diversification of metazoan reef ecosystems following the end-Permian mass extinction event. *Palaeogeography, Palaeoclimatology, Palaeoecology.* 513, 100-115. doi: 10.1016/j.palaeo.2017.08.014.

20. *Marroquín, S. M.**, **Martindale, R.C**., and Fuchs, D. 2018. New Records of the Late Pliensbachian–Early Toarcian (Early Jurassic) Gladius-Bearing Coleoid Cephalopods from the Ya Ha Tinda Lagerstätte, Canada. *Papers in Palaeontology*, 14(2), 245-276. doi: 10.1002/spp2.1104.

19. Foster, W.J.§, Lehrmann, D., Yu, M., *Ji, L.,* and **Martindale, R.C**., 2018. Persistent environmental stress delayed the recovery of marine communities in the aftermath of the latest Permian mass extinction. *Paleoceanography and Paleoclimatology.* 33(4), 338-353. doi: 10.1002/2018PA003328. ***OA***

18. *Tornabene, C.**, **Martindale, R.C**., *Wang, X.T.,* and Schaller, M.F., 2017. Detecting Photosymbiosis in Fossil Scleractinian Corals. *Scientific Reports.* 7 (9465). doi: 10.1038/s41598-017-09008-4. ***OA***

PEER-REVIEWED PUBLICATIONS (CONTINUED)

17. *Weiss, A.M.** and **Martindale, R.C**., 2017. Crustose coralline algae increase framework and diversity on ancient coral reefs. *PLoS ONE.* 12(8): e0181637. doi: 10.1371/journal.pone.0181637. ***OA***
16. **Martindale, R.C**. and Aberhan, M. 2017. Response of macrobenthic communities to the Toarcian Oceanic Anoxic Event in northeastern Panthalassa (Ya Ha Tinda, Alberta, Canada). *Palaeogeography, Palaeoclimatology, Palaeoecology*. 478, 103–120. doi: 10.1016/j.palaeo.2017.01.009
15. Maxwell, E.E., and **Martindale, R.C**. 2017. New *Saurorhynchus* (Actinopterygii: Saurichthyidae) material from the Early Jurassic of Alberta, Canada. *Canadian Journal of Earth Sciences*. 54(7), 714-719. doi: 10.1139/cjes-2017-0015.
14. **Martindale, R.C.,** *Them, T.R. II,* Gill, B.C., *Marroquín, S.M.*,* and Knoll, A.H., 2017. A new Early Jurassic fossil Lagerstätte from Ya Ha Tinda, Canada (~183 Ma). *Geology*, 45, 255-258. doi: 10.1130/G38808.1. ***OA***
13. *Them, T.R.,* Gill, B.C., Caruthers, A.H., Gröcke, D.R., *Tulsky, E.T.T.,* **Martindale, R.C.,** Poulton, T.P., and Smith, P.L., 2017. High-resolution carbon isotope records of the Toarcian Oceanic Anoxic Event (Early Jurassic) from North America and implications for the global drivers of the Toarcian carbon cycle. *Earth and Planetary Science Letters*, 459, 118–126. doi: 10.1016/j.epsl.2016.11.021.
12. **Martindale R.C.,** *Strauss, J.V.,* Sperling, E.A., *Johnson, J.E.,* Van Kranendonk, M.J., *Flannery, D., French, K.,* Lepot, K., Mazumder, R., Rice, M.S., Schrag, D.P., Summons, R., Walter, M., Abelson, J., and Knoll, A.H. 2015. Sedimentology, chemostratigraphy, and stromatolites of lower Paleoproterozoic carbonates, Turee Creek Group, Western Australia. *Precambrian Research* 266, 194–211. doi: 10.1016/j.precamres.2015.05.021.
11. Corsetti, F.A. Ritterbush, K.A., Bottjer, D.J., Greene, S.E., Ibarra, Y., Yager, J.A., West, A.J., Berelson, W.M., Rosas, S., Becker, T.W., Levine, N.M., Loyd, S.J., **Martindale R.C.,** Petryshyn, V.A., Carroll, N.R., Petsios, E., Piazza, O., Pietsch, C., Stellmann, J.L., Thompson, J.R., Washington, K.A., and Wilmeth, D.T. 2015. Investigating the Paleoecological Consequences of Supercontinent Breakup: Sponges Clean Up in the Early Jurassic. *The Sedimentary Record*. 13 (2), 4–10. doi: 10.2110/sedred.2015.2.4.
10. **Martindale R.C.,** Corsetti, F.A., James, N.P., and Bottjer, D.J., 2015. Paleogeographic trends in Late Triassic reef ecology from northeastern Panthalassa. *Earth Science Reviews*. 142, 18–37. doi: 10.1016/j.earscirev.2014.12.004
9. **Martindale R.C.,** Krystyn, L., Corsetti, F.A., and Bottjer, D.J., 2013. From fore reef to lagoon: Evolution of the Upper Triassic Dachstein carbonate platform on the Tennengebirge (Salzburg, Austria). *Palaios*, 28, 755–770. doi: 10.2110/palo.2013.016. ***(2013 Outstanding Paper in Palaios)***
8. **Martindale R.C.,** Krystyn, L., Bottjer, D.J., Corsetti, F.A., Senowbari-Daryan, B., and Martini, R. 2013. Depth transect of an Upper Triassic (Rhaetian) reef from Gosau, Austria: Microfacies and community ecology. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 376, 1–21. doi: 10.1016/j.palaeo.2012.12.010.

PEER-REVIEWED PUBLICATIONS (CONTINUED)

7. **Martindale R.C.,** Berelson, W.M., Corsetti, F.A., Bottjer, D.J., and West, A.J. 2012. Constraining carbonate chemistry at a potential ocean acidification event (the Triassic-Jurassic boundary) using the presence of corals and coral reefs in the fossil record. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 350–352, 114–123. doi: 10.1016/j.palaeo.2012.06.020.
6. **Martindale, R.C.**, Corsetti, F.A., Bottjer, D.J., and Senowbari-Daryan, B. 2012. Microbialite Fabrics and Diminutive Skeletal Bioconstructors in Lower Norian Summit Point Reefs, Oregon, U.S.A. *Palaios*, 27, 489–508. doi: 10.2110/palo.2012.p12-001r.
5. Greene, S.E.**, **Martindale, R.C.****, Ritterbush, K.A., Bottjer, D.J., Corsetti, F.A., and Berelson, W.M. 2012. Recognizing ocean acidification in deep time: an evaluation of the evidence for acidification across the Triassic-Jurassic boundary. *Earth Science Reviews*, 113, 72–93. doi: 10.1016/j.earscirev.2012.03.009. ***Both authors contributed equally*
4. Hönisch, B., Ridgwell, A., Schmidt, D.N., Thomas, E. Gibbs, S.J., Sluijs, A., Zeebe, R., Kump, L., **Martindale, R.C.,** Greene, S.E., Kiessling, W., Ries, J., Zachos, J.C., Royer, D.L., Barker, S., Marchitto, T.M., Moyer, R., Pelejero, C., Ziveri, P., Foster, G.L., and Williams, B., 2012. The Geological Record of Ocean Acidification. *Science*, 335, 1058–1063. doi: 10.1126/science.1208277.
3. **Martindale, R.C**., Bottjer, D.J., and Corsetti, F.A., 2012. Platy Coral Patch Reefs from Eastern Panthalassa (Nevada, USA): Unique reef construction in the Late Triassic. *Palaeogeography, Palaeoclimatology, Palaeoecology,* 313–314. 41–58. doi: 10.1016/j.palaeo.2011.10.007.
2. **Martindale, R.C**., Zonneveld, J.P., and Bottjer, D.J. 2010. Microbial Framework in Upper Triassic (Carnian) Patch Reefs from Williston Lake, British Columbia, Canada. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 297. 609–620. doi: 10.1016/j.palaeo.2010.09.009.
1. James, N.P., **Martindale, R.C.,** Malcolm, I., Bone, Y., and J. Marshall. 2008. Surficial sediments on the continental shelf of Tasmania, Australia. *Sedimentary Geology*, 211, 33–52. doi: 10.1016/j.sedgeo.2008.08.002.

OTHER PUBLICATIONS (COMMENTS, BOOK SECTIONS AND FIELD GUIDES)

3. **Martindale, R.C.,** Benison, K., Jackson, C., Romans, B. 2019 #SEPM- Sedimentary Geology in the Twitterverse. The Sedimentary Record. 17(4): 10-11. ***OA***
2. Zonneveld, J.P., Gingras, M.K., Beatty, T.W., Bottjer, D.J., Chaplin, J.R., Greene, S.E., **Martindale R.C.,** Mata, S.A., McHugh, L.P., Pemberton, S.G., and Schoengut, J.A. 2012. Chapter 26: Mixed Siliciclastic/Carbonate Systems. In: Trace Fossils as Indicators of Sedimentary Environments. Knaust, D. and Bromley, R.G. (eds.). Developments in Sedimentology, Vol. 64. Elsevier. 924 p.
1. Richoz, S., Krystyn, L., von Hillebrandt, A., and **Martindale R.C.,** 2012. End-Triassic crisis events recorded in platform and basin of the Austrian Alps. The Triassic/Jurassic and Norian/Rhaetian GSSPs. Field Trip Guide for the 29th IAS Meeting of Sedimentology in Schladming/Austria. *Journal of Alpine Geology* 55. S.321–374.

CREATIVE WORKS

1. **"Taphonomy: Dead and Fossilized"** – Anna Weiss and Rowan Martindale developed an educational board game about fossilization (Martindale and Weiss, 2020). The game is modeled after an Early Jurassic-aged fossil deposit in Canada. Through competitive gameplay, players learn about fossilization and how biology, environment, and taphonomic factors influence whether an organism is preserved. This game can be used for entertainment (informal learning), or as an active learning tool for undergraduate and high school classes (educational material developed with a local teacher, Mr. Enrique Reyes, and formergraduate student Dr. Estefania Salgado-Jauregui). More information here: www.jsg.utexas.edu/martindale/paleontological-board-games/
    a. The undergraduate module (Martindale and Weiss, 2020) is part of the SERC "On the Cutting Edge Exemplary Teaching Activities collection": https://serc.carleton.edu/teachearth/activities/231524.html.
    b. A modified version of the game was as well as an educational module aligned to NGSS and TEKS learning goals was designed by Mr. Enrique Reyes and assessed by Ms. Estefanía Salgado Jauregui (Salgado Jauregui et al., 2022). It is also part of the SERC "On the Cutting-Edge Exemplary Teaching Activities collection": https://serc.carleton.edu/teachearth/activities/234609.html.
    c. Virtual versions of the game are also accessible; instructions on Dr. Martindale's website (www.jsg.utexas.edu/martindale/paleontological-board-games/).

2. **"Reef Survivor"** – Rowan Martindale developed an educational board game about reef ecology and evolution (Martindale et al., 2024). The game can be modified for any time period with reefs (current draft focused on modern reef communities). Through competitive and collaborative gameplay, players learn about reef communities, evolution and natural selection, ecology, niches, and how different (natural) disasters can influence a reef community's survival. Ph.D. student Estefanía Salgado Jauregui is working on an adaptation for use specifically with reef conservation in Jamaica in collaboration with colleagues at the University of the West Indies, Mona, and Alligator Head Foundation. Middle School versions for Texas and Jamaica have also been developed. More information here: www.jsg.utexas.edu/martindale/paleontological-board-games/
    a. The undergraduate module of the Reef Survivor Lab activity (Martindale et al., 2023) is part of the SERC "On the Cutting Edge Exemplary Teaching Activities collection": https://serc.carleton.edu/teachearth/activities/277197.html.
    b. Two High School modules were developed with Sabrina Ewald and Enrique Reyes; both are posted on SERC's "Teach the Earth" webpage
        i. High School Advanced Placement Environmental Sciences Edition (Complex): https://serc.carleton.edu/teachearth/activities/277211.html
        ii. High School Aquatic Sciences Edition (Simple) *Exemplary Teaching collection: https://serc.carleton.edu/teachearth/activities/277212.html

3. **"DISTURBANCE: Port Aransas"** – A team from the Jackson School of Geoscience and the UT Marine Science Institute are developing an educational game about the Port Aransas coastline for K-12 students. The game is modeled after the Port Aransas coastal ecosystems (cities, salt marshes, mangroves, oyster reefs, seagrass beds, and open waters) and includes natural and anthropogenic disturbances commonly encountered by the community (e.g., hurricanes, heat waves, tourism during spring break, and beach cleanups). Through collaborative gameplay, players learn about the integrated ecosystems and the importance of keeping the coastline healthy.

INVITED PRESENTATIONS

Invitations or Future Presentations

- 2025 Geological Society of America Annual Meeting Invited Speaker

Completed Presentations

- 2025 Invited speaker Texas Science and Natural History Museum Program on Mass Extinctions
- 2025 Universität Münster Invited Speaker
- 2025 USC Departmental Seminar Speaker
- 2024 Plenary Speaker at the Early Career Researcher Symposium for the International Fossil Coral and Reef Society
- 2024 Trinity University science literacy, geoethics, and career planning Seminar
- 2023 Keynote Speaker at the Alberta Palaeontological Society Annual Symposium
- 2022 International Fossil Coral and Reef Society Seminar Inaugural Speaker
- 2021 University of Leeds, UK Earth Surface Science Institute Seminar Series
- 2021 University of Texas at Arlington, Department of Earth and Environmental Sciences Seminar
- 2021 University of California, Santa Cruz, Whole Earth Seminar (WES)
- 2020 University of Calgary, Friday Afternoon Talk Series
- 2020 American Geophysical Union Fall Meeting Invited Speaker
- 2020 Southeastern Louisiana University, Department of Biological Sciences Fall Seminar Series Invited Speaker
- 2020 University of Wisconsin-Madison, Department of Geosciences Weeks Lecture Invited Speaker
- *2020 Keynote Speaker at the Alberta Palaeontological Society 24th Annual Symposium (Spring 2020, cancelled due to COVID-19)*
- 2020 Southern Methodist University, Roy M. Huffington Department of Earth Sciences Lecture Series Invited Speaker
- 2019 Baylor University Geosciences seminar series Invited Speaker
- 2019 Syracuse University, Department of Earth Sciences Nelson Lecture Series Invited Speaker
- 2019 Geological Society of America Annual Meeting Invited Speaker.
- 2019 Society for Sedimentary Geology (SEPM) Research Symposium Invited Speaker at the American Association of Petroleum Geologists (AAPG) Annual Convention and Exhibition
- 2018 University of Georgia, Department of Geology Colloquium Speaker
- 2018 Texas A&M University, Geology and Geophysics Department Seminar
- 2018 University of Leeds, UK Earth Surface Science Institute Seminar Series
- 2018 5th International Palaeontological Congress Plenary Speaker
- 2018 Invited Speaker for the Royal Tyrrell Museum Speaker Series
    - Online at: https://youtu.be/YU7JYdoinTA
- 2017 American Geophysical Union Fall Meeting Invited Speaker
- 2017 University of Nebraska-Lincoln Invited Speaker (Department Seminar- Stout Lecture)
- 2017 Oklahoma State University Invited Speaker (Department Seminar)
- 2017 Goldschmidt Invited Speaker
- 2017 Paleontological Society of Austin seminar
- 2017 Repsol Invited Speaker

INVITED PRESENTATIONS (CONTINUED)

- 2017 Geological Survey of Canada McConnell Club Invited Speaker
- 2016 Texas A&M University, Ecology and Evolutionary Biology research seminar
- 2015 University of Texas, San Antonio, Department of Geological Sciences seminar
- 2015 Paleontological Society of Austin seminar
- 2014 University of Texas at Austin, Jackson School of Geosciences Tech Session talk
- 2014 Bryn Mawr College, Department of Geology seminar
- 2014 Kent State University, Department of Geology colloquium
- 2013 University of Texas at Austin, Jackson School of Geosciences special seminar
- 2013 MIT, Department of Earth, Atmospheric, and Planetary Sciences special seminar
- 2012 Harvard University Department of Earth and Planetary Sciences seminar
- 2012 Massachusetts Institute of Technology, Chemical Oceanography and Geobiology seminar
- 2012 Harvard University, Organismic and Evolutionary Biology colloquia

RESEARCH GRANTS (TOTAL FUNDS AWARDED AS PI: $4,457,406 USD)

Active Grants Funded (while Primary Investigator at UT Austin)

- UT Austin Faculty Research Seed Grant; Title: *A Multidisciplinary Study of the Middle Jurassic Coral Reef Recovery in Morocco Following Severe Coral Extinction and Reef Collapse";* Funding Period: 01/2025 to 01/2026; PI: Rowan Martindale (100%); Funding Amount (Total): $10,000.
- NSF Division of Research Innovations, Synergies, and Education (RISE); Title: *GP-GO: Fostering a learning ecosystem for interdisciplinary Earth scientists through service learning and conservation in Jamaica*; Funding Period: 10/2023 to 09/2026; PIs: Rowan Martindale (25%), Ashley M. Matheny (25%), Melissa Kemp (25%), Leah Turner (25%); Funding Amount (Total): $529,977.
- NSF I-Corps Program; Title: *I-Corps: Educational game based on research from Jurassic and current coral reefs*; Funding Period: 05/2023 to 09/2025; PI: Rowan Martindale (100%); Funding Amount (Total): $50,000.
- NSF Division of Earth Sciences Faculty Early Career Development (CAREER) Program; Title: *CAREER: Assessing the connection between ecological and environmental collapse during the Pliensbachian-Toarcian carbon-cycle perturbation in Morocco*; Funding Period: 09/2019 to 05/2026; PI: Rowan Martindale (100%); Funding Amount (Total): $573,932.

Completed Grants (while Primary Investigator at UT Austin)

- Texas Gulf Coast Impact Grants, Track 2- Impact 2075 Grants; Title: *DISTURBANCE: Showcasing UT Austin research and educating local communities through a new game that models the impacts of disturbances on interconnected Texas Gulf Coast ecosystems;* Funding Period: 03/2024 to 08/2025; PIs: Rowan Martindale (25%), Adriana Reza (25%), Ashley M. Matheny (20%), Simon Brandl (20%), Jordan Casey (20%); Funding Amount (Total): $100,000.
- UT Austin, Texas Global Faculty Research Seed Grant; Title: *From land to sea: an assessment of pollution impacts on coastal ecosystems in Jamaica*; Funding Period: 05/2022-07/2023; PIs: Ashley M. Matheny (50%) and Rowan C. Martindale (50%); Funding Amount: $10,000; (50% of funds under candidate's supervision).
- UT Austin, Associate Professor Experimental (APX) Grant; Title: *The Impact of Games on Learning, Engagement, and Equity in Geosciences*; Funding Period: 01/2021 to 12/2021; PIs: Rowan Martindale (50%) and North Cooc (50%); Funding Amount: $90,200; (50% of funds under candidate's supervision).
- NSF Division of Earth Sciences (Sedimentary Geology and Paleobiology); Title: *Assessing the Paleoecology and Taphonomy of the New Early Jurassic Ya Ha Tinda Lagerstätte (Canada) and the Significance of the Toarcian Ocean Anoxic Event*. Funding Period: 06/2017 to 05/2021(extended); PI: Rowan Martindale (100%). Funding Amount (Total): $380,306.
- NSF Digitization Division of Biological Infrastructure (Collections in Support of Biological Research – Thematic Collections Networks); Title: *Collaborative Research: The Cretaceous World: Digitizing Fossils to Reconstruct Evolving Ecosystems in the Western Interior Seaway*. Funding Period: 07/2016 to 06/2019; PIs: Ann Molineux (60%), Rowan Martindale (20%), Matthew Brown (20%). Total Award: $2,100,000; UT Portion of Award: $240,528.

RESEARCH GRANTS (CONTINUED)

- NSF Division of Biological Infrastructure (Collections in Support of Biological Research); Title: *Natural History: Critical infrastructure upgrades and expanded digital access to Non-vertebrate Paleontology Collections at the University of Texas at Austin.* Funding Period: 08/2015 to 07/2019; PIs: Ann Molineux (80%), Rowan Martindale (20%). Funding Amount (Total): $495,880.
- University of Texas at Austin, College of Natural Sciences Catalyst Grant. Title: *Integrating paleontology and genomics to characterize long-term responses of Caribbean coral reefs to climate change*. Funding Period: 11/2015 to 11/2020 (extended); PIs: Rowan Martindale (Geological Sciences, 50%) and Mikhail Matz (Integrative Biology, 50%). Funding Amount (Total): $50,000.
- University of Texas at Austin, Jackson School of Geosciences, Surface and Hydrologic Processes Research Seed Grant; Title: *Early Jurassic Moroccan Reefs - Establishing the Sedimentological Framework for future work on reef recovery and collapse*; PI: Rowan Martindale (100%). Funding Amount (Total): $15,555.
- University of Texas at Austin, Jackson School of Geosciences, Surface and Hydrologic Processes Research Seed Grant Title: *Two new applications of U isotopes*; Funding Period: 01/2015 to 01/2016 (plus a 1-year extension); PIs: Staci Lowey (30%), Jay Banner (20%), Erik James (20%), Rowan Martindale (20%), John Kappelman (10%). Funding Amount (Total): $19,727; (0% of funds under candidate's supervision).
- University of Texas at Austin, Jackson School of Geosciences, Climate, Carbon, and Geobiology Research Seed Grant; Title: *New techniques for assessing microbial communities and endosymbionts in fossil reefs;* Funding Period: 01/2015 to 01/2016 (plus a 1-year extension); PIs: Rowan Martindale (50%); Timothy Shanahan (25%), Christopher Omelon (25%). Funding Amount (Total): $16,829.
- University of Texas at Austin, Jackson School of Geosciences, Climate, Carbon, and Geobiology Research Seed Grant; Title: *A new Lagerstätte from the Early Jurassic (~183 Ma) at Ya Ha Tinda, Alberta, Canada*; Funding Period: 01/2014 to 01/2015 (plus a 1-year extension); PI: Rowan Martindale (100%). Funding Amount (Total): $15,000.

RESEARCH GRANTS (CONTINUED)

Completed (while Graduate student at USC)

- American Association of Petroleum Geologists Foundation Grant (Awarded 2008, 2010)
- American Museum of Natural History, Theodore Roosevelt Memorial Grant (Awarded 2008)
- Evolving Earth Foundation Student Grant (Awarded 2008)
- Geological Society of America, Graduate Student Research Grant (Awarded 2008)
- International Association of Sedimentologists, Postgraduate Grant (Awarded 2008)
- Natural Sciences and Engineering Research Council of Canada (NSERC) Postgraduate Scholarship (PGS D3), 3-year support of Doctoral research. (Awarded 2008)
- Paleontological Society, Robert J. Stanton and James R. Dodd Student Research Award (Awarded 2009)
- Society of Sedimentary Geology (SEPM), President's Student Fund (Awarded 2009)

FELLOWSHIPS AND SCHOLARSHIPS

While at UT Austin

- 2022-2023 *Provost's Mentored Faculty Scholars Program*: Faculty Mentee ($10,000)
- 2019-2021 *ELI Faculty Ambassador for the UT Experiential Learning Initiative*: Faculty mentor to ELI Course Developers ($3000/year).
- *2018 Paleontological Society Biannual Conference Support* award for "Gulf of Mexico Reef" Symposium ($1000)
- *2017 UT Austin Mentoring fellowship*: recruiting award for an exceptional underrepresented minority graduate student

Post-Graduate

- *2013 Agouron Post-doctoral Research Fellowship* (alternate fellow)
- *2012 Humboldt Post-doctoral Research Fellowship* (declined)
- *2012 Scripps Institution of Oceanography Postdoctoral Scholar* (declined)

Graduate

- *Best Student Presentation*: Awarded for the best oral presentation at the Southern California Geobiology Symposium (2011).
- *College Merit Fellowship:* Awarded to a graduate assistant based on academic performance (Awarded 2007).
- *Women in Science and Engineering Top-Off Award:* Awarded to an outstanding female doctoral student in science and engineering (Awarded 2007).
- *College Doctoral Fellowship:* Awarded to incoming students based on academic performance (Awarded 2007).

TEACHING EXPERIENCE

Professor, University of Texas at Austin, Department of Geological Sciences

Transitions in the History of Life (GEO 371T/322J & 391/397L, upper-level undergraduate and graduate-level course) Fall 2015, 2017, 2019, 2023, 2025.

Life Through Time (GEO 405, lower-level undergraduate course) Spring 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, Fall 2023, Spring 2024, 2025.

** 2017 & 2024 Knebel Teaching Award (undergraduate course) for GEOL 405.*

Evolution of Reef Ecosystems (GEO 391, graduate-level course) Spring 2015; (371T/389E, upper-level undergraduate and graduate-level course) Fall 2016, Spring 2019, Fall 2020, 2024.

Undergraduate Honors Research Program (GEO 379H) Lead the UHRP field trip to Germany Spring 2023

Field Geology (GEO 660, upper-level undergraduate field camp) Summer 2018.

The Interactive Ocean: History, Science, and People on the Blue Planet (UGS 302, undergraduate signature course) Fall 2015, *co-taught with Dr. S. Gulick*.

Exceptional Fossilization (GEO 391, graduate-level course) Spring 2015.

Teaching Assistant, University of Southern California, Earth Sciences Department

Oceanography (general education course) Fall 2010 *Best Teaching Assistant Award

Surficial Processes and Stratigraphic Systems (third-year course) Spring 2010 *Best Teaching Assistant Award

Climate Change (general education course) Spring 2008

Teaching Assistant, Queen's University, Geology Department

Engineering Geology (first-year engineering course) Fall 2005 & 2006

Terrain Evaluation (third-year course) Spring 2006 & 2007

EDUCATIONAL ACTIVITIES DEVELOPED

Educational activity posed to the SERC "Teach the Earth" website:

- "Reef Survivor" Board Game - University Edition, 2023 Undergraduate Freshman, Topics: Evolution, Ecology, Environmental Change ***Exemplary Teaching Activity Collection***: https://serc.carleton.edu/teachearth/activities/277197.html.
- "Reef Survivor" - High School Aquatic Sciences Edition (Simple)", 2023 ***Exemplary Teaching Activity Collection***: https://serc.carleton.edu/teachearth/activities/277212.html
- "Reef Survivor" Board Game - High School Advanced Placement Environmental Sciences Edition (Complex), 2023: https://serc.carleton.edu/teachearth/activities/277211.html
- "The Great Clade Race - Zombie Island Edition", 2020, Undergraduate Freshman, Topics: Paleontology, Phylogeny, Evolution: https://serc.carleton.edu/teachearth/activities/238347.html
- "Taphonomy: Dead and Fossilized Board Game - High School Edition" ***Exemplary Teaching Activity Collection***, 2020, 12th grade High School, Topics: Paleontology, Fossilization, Taphonomy: https://serc.carleton.edu/teachearth/activities/234609.html
- "Taphonomy: Dead and Fossilized Board Game" ***Exemplary Teaching Activity Collection***, 2019, Undergraduate Freshman level, Topics: Paleontology, Fossilization, Taphonomy: https://serc.carleton.edu/teachearth/activities/231524.html
- "Plastic Amniote Phylogeny", 2018, Undergraduate Freshman, Topics: Paleontology, Phylogeny, Vertebrate Biology: https://serc.carleton.edu/teachearth/activities/205476.html

Collaborated with the UT Environmental Science Institute to build a "Dinosaur Tracks" lesson plan for elementary schools: www.esi.utexas.edu/files/Dinosaur-Tracks.pdf.

STUDENTS AND POSTDOCTORAL RESEARCHERS MENTORED

Postdoctoral Researchers (UT Austin)

Ekaterina (Katya) Larina, JSG Distinguished Postdoctoral Fellow (2022-2025) – *Currently a Data Analyst at Earthworks*

A. Drew Muscente, Postdoctoral Fellow (08/2018-08/2019) – *Tenure-track Assistant Professor position at Cornell College (2019-2022).*

William J. Foster, JSG Distinguished Postdoctoral Fellow (2015-2017) – *Currently W2 Tenure Track Professor (Emmy Noether Research Group Leader) at the Universität Hamburg (Initially was an Assistant Professor in Paleobiology at University College Dublin, Ireland).*

Graduate Students (Primary Advisor, UT Austin)

Gerson Ganzalez-Marin (MSc, expected 2028)

Gabriel Ojo (Ph.D., expected 2030) – *co-advised with Christopher Lowery*

Talita Gomes (Ph.D., expected 2030) – *co-advised with Ashley Matheny*

Remi Kurita (MSc, expected 2027)

Claire Williams (Ph.D., expected 2026)

Patricia J. Standring (Ph.D., 2025) – *co-advised with Christopher Lowery, currently a Peter Buck Postdoctoral Fellow at the Smithsonian Institution.*

Liam Norris (Ph.D., 2025) – *Currently an Exhibition and Outreach Associate at Texas Science & Natural History Museum*

Sinjini Sinha (Ph.D., 2024) – *Currently a Postdoctoral Research Associate at West Virginia University.*

Travis Stone (Ph.D., 2024) – *Currently an Associate Paleontologist at Applied Earthworks, Pasadena*

Estefania Salgado Jauregui (Ph.D., 2023) – *co-advised with Katherine Ellins, currently an Education Leader with the Museo Geológico Nacional - José Royo Gómez in Columbia*

Ali Alibrahim (2021-2022) – *co-advised with Christopher Lowery*

Anna M. Weiss (Ph.D., 2019) – *director at Green Galveston.*

Stacie Skwarcan (2018-2019) – *co-advised with J. Banner, now completing a Ph.D. with C. Bell*

Nicholas P. Ettinger (MSc, Spring 2017, co-advised with C. Kerans) – *now in law school.*

Kelly E. Hattori (MSc, Spring 2017, co-advised with C. Kerans) – *now completing a Ph.D. at the Bureau of Economic Geology.*

Hannah M. Brame (2016-2017) – *now working as Environmental Claims Specialist at the Ohio Petroleum Underground Storage Tank Release Compensation Board.*

Selva M. Marroquín (MSc, Spring 2016) – *now Assistant Professor at the University of Wisconsin-Madison.*

Chiara Tornabene (MSc, Spring 2016) – *now tutoring at Sylvan Learning and applying for teaching programs (currently on maternity leave).*

Undergraduate Students (UT Austin)

Wilson Bai (BScH, exp. 2026): Research Mentor & Undergraduate capstone advisor

Tiffany Vu (BScH, exp. 2025): Research Mentor & Undergraduate capstone advisor

Caitlin Currie (BSc, 2024): Research Mentor (Champions of Diversity Program)

Amber Nguyen (BScH, 2023): Undergraduate thesis committee member

Katherine Faulkner (BScH, 2023): Research Mentor with Dr. C. Lowery (2019-2023)

STUDENTS AND POSTDOCTORAL RESEARCHERS MENTORED (CONTINUED)

Tanner Fonville (BScH, 2022): Research Mentor & Undergraduate thesis advisor (2020-Present) – *Graduate student at TAMU*

Barbara Sulbaran (BScH, 2022): Research Mentor & Undergraduate thesis advisor (2020-Present)

Tyler Logie (BScH, 2021): Research Mentor & Undergraduate thesis advisor (2019-Present)

Abby Cervenka: Research Mentor for preparing invertebrate fossils (2019-2020)

Abby Creighton (BSc, exp. Spr. 2022): Research Mentor (2018-Present)

Brooke Bogan (BSc, Spr. 2020): Research Mentor (2017-2020) – *MSc, Fredonia SUNY 2022*

Sean Kacur (BSc, Spring 2019): Research Mentor & Undergraduate thesis advisor (2015-Present)

Jaime Hirtz (BSc, Spr. 2019): Research Mentor (2016-2018) – *MSc, UT Austin 2021*

Mackenzie White (BSc, Fall 2017): Research Mentor – *PhD student at Southern Methodist University.*

Jordan Oefinger (BSc, Spr. 2018): Research Mentor – *MSc, University of Arkansas*

Maria Reistroffer (BSc, Spr. 2017): Undergraduate thesis advisor – *MSc, Oklahoma State*

Walker Wiese (BSc, Spr. 2017): Undergraduate thesis advisor – *now working in the procurement department at Kendra Scott Design*

Other undergraduate students that volunteered in the lab: Arisa Ruangsirikulchai (2016), Yinuo Wang (2016), Tyler Cadena (2016), Jenny Le (2017), Rebecca Ryan (2016-2019); Tanner Fonville (2019-2020), Kyle Ma (2019-Present), Annabella Smith (2024).

Graduate Students (Committee Member at UT Austin)

John Moretti (Ph.D., advisor: C. Bell): Qualifying exam & Dissertation committee 2020-2025

Sophia Bautista (Ph.D., advisor: T. Shanahan): Qualifying exam committee 2023-2024

Myriam Loving (MSc, advisor: A. Matheny): Thesis committee 2021-2023

Natasha Piatrunia (Ph.D., advisor: T. Shanahan): Qualifying exam & Dissertation committee 2016-2022

Abdulah Eljalafi (Ph.D., advisor: C. Kerans): Qualifying exam & Dissertation committee 2018-2022

Sarah N. Davis (Ph.D., advisor: J. Clarke): Qualifying exam & Dissertation committee 2017-2022

Schilling, Solveig (MSc, advisor: C. Lowery): Thesis committee 2021-2022

Nicholas Montiel (Ph.D., advisor: L. Lavier): Qualifying exam committee 2020-2021.

Robert Domeyko (Ph.D., advisors: T. Quinn & J. Partin): Qualifying exam committee 2019-2021.

Allison Lawman (Ph.D., advisors: T. Quinn & J. Partin): Dissertation committee 2017-2020 - *Postdoctoral Research Fellow at Rice University*

Charles Withnell (Ph.D., advisor: C. Bell): Dissertation committee 2016-2020 – *now Visiting Assistant Professor at Missouri Southern State University.*

Benjamin Smith (Ph.D., advisor: C. Kerans): Dissertation committee 2015-2019– *now Postdoctoral Research Fellow at CalTech.*

Zachary Foster-Baril (Ph.D., advisor: D. Stockli): Qualifying exam committee 2018-2019

Simon Scarpetta (Ph.D., advisor: C. Bell): Dissertation committee 2016-2019

STUDENTS AND POSTDOCTORAL RESEARCHERS MENTORED (CONTINUED)

Lauren English (Ph.D., advisor: J. Clarke): Dissertation committee 2017-2018 – *now a Museum Scientist at University of California, Riverside.*

William Gelnaw (Ph.D., advisor: C. Bell): Dissertation committee 2015-2018 – *now working at Paleo Solutions.*

James Proffitt (Ph.D., advisor: J. Clarke): Dissertation committee 2015-2018 – *now Anatomy lecturer at the University of Missouri School of Medicine.*

Mahmoud Al-Nazghah (Ph.D., advisor: C. Kerans): Dissertation committee 2015-2018 – *now working at Saudi Aramco.*

Sarah Barfield (Ph.D. advisor: M. Matz): Qualifying exam committee 2015

Joshua Lively (Ph.D., advisor: C. Bell): Qualifying exam committee 2015 – *now Lecturer in Environmental Studies at University of Illinois – Springfield.*

Rachel Bernard (Ph.D., advisor: W. Behr): Qualifying exam committee 2015 – *now a postdoctoral scholar at Scripps Institution of Oceanography, UCSD. Fall 2019, Visiting Assistant Professor at Amherst College*

Mohammed Fallatah (MSc, advisor: C. Kerans): Thesis committee 2016-2017 – *now working at Saudi Aramco, returning to UT Austin as a Ph.D. student Fall 2019.*

Benjamin Breeden (MSc, advisor: T. Rowe): Thesis committee 2014-2015 – *now PhD student at University of Utah*

Graduate Students (Committee Member at Another University)

Shibajyoti Das (Ph.D. at Syracuse University, advisor: C. Junium): Dissertation committee 2017- 2022

Raphäel Vasseur (Ph.D. at Université de Lorraine, Nancy, advisor: B. Lathuilière): Dissertation committee 2017-2018

Sydney Lee (MSc at University of Georgia, advisor: S. Holland): Thesis advisory committee March 2019-October 2019

PROFESSIONAL SERVICE

Regionally, nationally, and internationally

Editorial board member for *Geobiology* **January 2021 to Present**
Newest editorial board member for the journal *Geobiology*.

International Subcommission on Jurassic Stratigraphy **September 2020 to Present**
Voting member of the ISJS.

Paleontological Society Education and Outreach committee **September 2024 to Present**
Member of the PaleoSoc Education and Outreach committee.

Liaison for the Paleontological Society This IS PS Program **May 2019 to Present**
Point of contact and ally for people experiencing harassment or code of conduct violations while at meetings [part of the Inclusive and Safe Paleontological Society (This IS PS) initiative], assists PaleoSoc members in reporting or diffusing difficult situations.

Liaison for the Geological Society of America RISE Program **August 2019 to Present**
Point of contact and ally for people experiencing harassment or code of conduct violations while at meetings [part of the Respectful and Inclusive Scientific Events (RISE) initiative]; assists GSA members in reporting or diffusing difficult situations.

Science Advisor for the Paleontological Society of Austin **November 2015 to Present**
Advise the PSA about scholarships and provide content for outreach events and fossil shows.

Journal Article Reviewer **Ongoing**
Geology; Science; Science Advances; Palaeogeography, Palaeoclimatology, Palaeoecology; Sedimentology; Proceedings of the Royal Society B; Geosciences; Royal Society Open Science; PeerJ; Paleobiology.

Paleontological Society student research grant committee **December 2019 to 2023**
H.M. Johnson Scholarship Subcommittee **2023**
Member of the PaleoSoc student research grant committee and proposal reviewers.

"Gulf of Mexico Reefs" Symposium Coordinator **2018, 2023**
Organizer for the "Gulf of Mexico Reefs: Past, Present and Future" Symposium held at Rice University October 2018 (www.jsg.utexas.edu/martindale/gulf-of-mexico-reef-symposium/).

GSA division executive committee **October 2014 to 2023**
Executive committee member [Past Chair (2020-2023), Chair (2018-20), Vice Chair (2016-2018), Secretary (2014-2016)], GSA Geobiology and Geomicrobiology division].

GSA Annual Meeting Topical Session Chair **Fall 2013, 2014, 2017-2022**
Organized and chaired topical sessions at the 2013, 2014, 2017, 2018, 2019, 2020, and 2021 Geological Society of America Annual Meetings.

Topic Editor (Frontiers in Marine Science) **2019 to 2021**
Topic Editor for a Special Edition of *Frontiers in Marine Science*: Research Topic 'Gulf of Mexico Reefs: Past, Present and Future'

NSF Panelist **Spring 2016, Fall 2020, Spring 2021**
Panelist for the NSF EAR division.

NSF & NASA Grant Proposal Reviewer **Winter 2018, Summer 2020**
Reviewer for the Postdoctoral Research Fellowships (NSF EAR Sedimentary Geology and Paleobiology division) and NASA Exobiology Grants.

GSA Student Presentation Judge **Fall 2016, 2018, 2019, & 2023**
Judged student posters and talks at the Geological Society of America Annual Meeting: Geobiology & Geomicrobiology division (2016, 2022, 2023); Paleontological Society (2018, 2019, 2022, 2023).

SEPM Student Poster Judge **May 2019**
Judged student posters at 2019 SEPM Meeting (AAPG Annual Convention and Exhibition).

AGU Outstanding Student Presentation Judge and Session Liaison **2015, 2016, 2017**
Judged posters and talks for several disciplines at the 2015, 2016, and 2017 Fall AGU meeting; was the session liaison at the Fall 2015 meeting.

AAPG Exceptional Presentation Judge **April 2017**
Judged posters and talks at the 2017 AAPG Annual Convention and Exhibition.

IAS Annual Meeting Session Chair **Fall 2015 to Spring 2016**
Organized a session at the International Association of Sedimentologists Annual Meeting.

AGU Annual Fall Meeting Session Chair **Fall 2015**
Organized and chaired a session at the 2015 American Geophysical Union Annual Meeting.

Caribbean Coral Reefs at Risk Session Chair **September 2015**
Chaired a session at the 2015 Caribbean Coral Reefs at Risk Symposium at UT Austin.

STEPPE Consortium Board of Directors **January 2016**
Four-year advisory term and service on a committee.

Within the University of Texas at Austin

Graduate Student Admissions Committee **Fall 2024 to Present**
Planetary Geosciences and Geobiology Member on the Jackson School of Geosciences Graduate Student Admissions Committee (GSAC) from 2024-2027.

UT Provost's Launch Committee **Fall 2024 to Present**
Mentor for the 2024-2025 of the Provost's Launch Committee.

Fulbright U.S. Student Program campus selection committee **Spring 2023 to Present**
Member of the UT Austin campus selection committee.

DGS Faculty Social Organizer **Fall 2014 to Present**
Organize weekly social gatherings of the Earth and Planetary Sciences department.

Department of Earth and Planetary Sciences Awards Committee **Fall 2016 to Present**
Member of the committee that identifies faculty for internal and external award nominations. Spring 2021 to Fall 2023, chair of the committee.

Jackson School Student Poster Symposium Judge **2015, 2016, 2018-2021, 2023, 2024**
Judged various sections of the Jackson School of Geosciences student poster symposium.

Faculty Host for Visiting Speakers **Fall 2014 to Spring 2024**
Coordinated visits of visiting speakers: Jean Hsieh (F15), Rachel Wood (Sp16), Andrew Knoll (Sp16), Jocelyn Sessa (Sp17), Jonathan Payne (Sp17), Maria Mutti (Sp18), Elizabeth Petsios (Sp19), Isaiah Bolden (Sp20), JC Creveling (Sp20), Ariel Anbar (Sp20), Hendratta Ali (F20), Yadira Ibarra (F20), Melissa Kemp (Sp 21), Debbie-Ann Gordon Smith (Sp22), Crispin Little (Sp24), and Stéphane Bodin (Sp24). Also met with, dined with, and attended the talks of multiple visitors to UT Austin.

PROFESSIONAL SERVICE (CONTINUED)

Leader of the JSG URGE Pod **Fall 2020 to 2023**

Leader of the JSG group participating in the Unlearning Racism in Geoscience initiative (URGE; www.urgeoscience.org).

GSC AGU Bridge Proposal Committee **Fall 2019 to 2023**

Member of the Graduate Studies Committee working on a proposal for UT Austin to be included in the AGU Bridge Program.

Provost's Early Career Cohort Fellowship Selection committee **Spring to Fall 2022**

Member of the DGS selection committee for two postdoctoral scholars.

DGS SSL annual performance review committee **Spring 2017, 2019, 2022**

Part of the annual performance review committee for the Department of Geological Sciences Earth Surface, Subsurface, and Life Program.

GSC Parental Accommodations Committee **Fall 2020 to Spring 2021**

Chair of the JSG Graduate Studies Committee ad-hoc Parental Accommodations committee.

JSG Culture Survey Committee **Summer 2020 to Fall 2020**

Member of the Culture Survey committee

Coordinator for prospective student visits **Spring 2014 to 2020**

Organized schedules and coordinated the visits of multiple paleontology prospective students during the prospective student weekend at UT Austin.

Examiner - Folk and McBride Petrology Contest **Spring 2017, 2019**

Organized questions and graded a portion of the Folk and McBride Petrology Contest (graduate and undergraduate).

DGS SSL Sedimentary Geology Hiring Committee **Fall 2017 to Spring 2018**

Co-chair of the committee to hire a sedimentary geologist (Assistant Professor) for the JSG Department of Geological Sciences.

GSC Loose Ends Committee **Fall 2016 to Spring 2017**

Member of the JSG Graduate Studies Committee "Loose-ends" ad-hoc committee.

New Graduate Student Field Trip Leader **August 2014 & 2016**

Participated in the JSG new graduate student field trip to Austin-area geological sites.

DGS External Chair Hiring Committee **Spring 2015 to Fall 2016**

The early-career member of the committee to hire an external department chair for the JSG Department of Geological Sciences.

DGS Hiring Committee **Fall 2015 to Spring 2016**

Member of the joint UTIG-DGS committee for the Jackson School of Geosciences.

VOLUNTEER ACTIVITIES AND PUBLIC OUTREACH

Hot Science-Cool Talks Science Fair Outreach **01/2016, 10/2016, 02/2018, 04/2025**
Organized and manned a Paleontology booth for public outreach. 01/2016: display of Cretaceous fossils and the K-Pg extinction. 10/2016: interactive dinosaur trackway; kids put on "dino shoes", made a track, and measured their stride to determine speed and side. 02/2018 & 04/2025: fossil reef display with dive videos.

Ya Ha Tinda Lagerstätte Museum Displays and Outreach **Fall 2016 to Present**
Organize public outreach displays about the newly discovered Ya Ha Tinda Lagerstätte. Deliverables have included the design of a fossil display case at UT Austin and another at Ya Ha Tinda Ranch, contributions to the fossil display case at the Royal Tyrrell Museum of Palaeontology (unveiled in Fall 2017), and the design of a pamphlet about the fossil deposit for the 150th anniversary of the Ya Ha Tinda Ranch.

Science Advisor for the Paleontological Society of Austin **November 2015 to Present**
Advise the PSA about scholarships and provide content for outreach events and fossil shows.

Contributor to SERC "Teach the Earth" **2018 to Present**
Developed paleontological educational activities to the SERC "Teach the Earth" website (see *Educational Activities Developed*).

"Postdoc Preparation Party" Coordinator **January 2018 to 2024**
Faculty coordinator for a voluntary group of graduate students preparing their postdoc applications (FAQ about the process, review of proposal drafts, etc.).

Black in Geoscience Week Volunteer **Fall 2020**
Volunteer with the social media outreach event #BlackinGeosciencesWeek, Sept. 6-12, 2020.

Webmaster for GSA GBGM division **2014 to 2020**
Designed, created, and maintain the website for the Geological Society of America's Geobiology and Geomicrobiology division: http://gsageobiology.blogspot.com.

The Thinkery's Two Scientists Walk into a Bar **March 2020**
Participated in an outreach event where scientists talked to the public in local bars.

Guest Lecturer **11/2014, 02/2017, 10/2019**
Guest lecturer in various UT Austin classes, topics include: Mass Extinctions; Modern reefs and corals; Paleontology and the Scientific Process.

Darwin Day Outreach **February 2017, 2018**
Organized and manned an interactive dinosaur trackway activity for public outreach; kids put on "dino shoes", made a track, and measured their stride to determine speed and side.

Science Advisor for EarthDate **April 2017**
Advise the EarthDate Content Producer about Paleontological research for their radio show.

Paleontological Society of Austin Talks **November 2015 and February 2017**
Presentation of recent research projects for the Paleontological Society of Austin (composed of children, fossil enthusiasts, and professional geologists).

UT Austin UGS Talks **April 2015 and March 2017**
Presentation of recent research projects and career pathway for the Undergraduate Geological Society Career and Science Talk

UT Austin UHRP Talks **April 2015 and March 2017**
Presentation of recent research for the Undergraduate Honors Research Program class.

Paleontological Society March for Science coordinator **April 2017**
Acted as the Paleontological Society's local Austin coordinator for the March for Science.

VOLUNTEER ACTIVITIES AND PUBLIC OUTREACH (CONTINUED)

UT Austin Brown Bag Lectures **2014, 2017, Spring & Fall 2020**

Presentation of recent research for the UT Austin Community (Paleontological Brown Bag).

Jackson School of Geosciences Mentor **Fall 2014 to Spring 2017**

Gave research and career-oriented presentations and participated in discussions with the JSG community; JSG Postdoctoral group (Fall 2014), Undergraduate honors class (Spring 2015, 2017), Undergraduate Society (Spring 2015), and First Year Interest Group (Fall 2015).

Collaborator on ESI Outreach Lesson Plans **November 2016**

Collaborated with the UT Environmental Science Institute to build a "Dinosaur Tracks" lesson plan for elementary schools: www.esi.utexas.edu/files/Dinosaur-Tracks.pdf.

Science advisor **Spring 2015**

Advised Jane Teeling on computer renderings of Cambrian environments and organisms for a NOVA documentary on the Cambrian Explosion as well as Peter Brannen on reef collapse and extinctions for his book, "The Ends of the World" (2017), written for the general public.

ADDITIONAL TRAINING AND FIELD/LABORATORY EXPERIENCE

Wilderness Field First Aid **Spring 2025**
Participated in a custom (geology field work) 8-hour Wilderness Field First Aid (WFFA) Course taught by the Expedition School.

Red Cross First Aid Training **Spring 2024 & 2025**
American Red Cross First Aid (05/2025), Adult & Pediatric First Aid/CPR/AED (01/2024).

Miscellaneous Courses **1999 to Present**
PADI SCUBA diving Open Water Diver, UT Lab Safety Training (2025 most recently), Lifesaving I, Emergency First Aid and CPR Training (2024), Valid Texas Driver's License.

Creating Inquiry-Based Labs for Introductory Geology Courses **July 2020**
Participated in online workshop at the Earth Educator Rendezvous.

History of the Black Experience **July & August 2020**
Participated in online course for UT Faculty and Staff about the Black experience in America (1865 to 2020); focus on issues/themes that connect to contemporary Black life in America.

UT Austin Ally Workshops **October 2019**
Participated in the Title IX Basics for Supervisors workshops at UT.

Paleontological Society Liaison Training **May & June 2019**
Participated in "Ombuds Training" and "Mindfully Managing Microaggressions" sessions (development of listening skills, recognizing, and interceding during microaggressions). Sessions trained liaisons for the Inclusive and Safe Paleontological Society program.

GSA RISE Liaison Training **May & June 2019**
Participated in an online training for liaisons to the Geological Society of America Respectful, Inclusive Scientific Events (RISE) program.

"GSA RISE: Ally Skills for Leaders" Workshop **November 2018**
Participated in an allyship and anti-harassment workshop for leaders of the Geological Society of America.

"Supporting the Success of All Students" Workshop **December 2017**
Participated in a workshop about "Broadening Participation of Underrepresented Groups in the Geosciences" at the American Geophysical Union Annual Fall Meeting

UT Austin Ally Workshops **Fall 2017**
Participated in the following training workshops from the Gender and Sexuality Center at UT Austin: Allyship Toolkit Part 1 – Affirming LGBTQA+ People: Interpersonal Allyship (09/2017); Identifying & Interrupting Everyday Intersectional Sexism (11/2017); Our Respectful Workplace (12/2017).

Sedimentology of the Caicos Platform **March 2015 and 2017**
Participated in a week-long field trip in 2015 and 2107 (part of the UT Austin course "Sedimentology of Caicos Platform, B.W.I." taught by S. Bachtel, C. Kerans, and C. Zahm)

UT Austin Statistics Short Courses **Fall 2015**
Participated in the following software short courses at UT Austin (department of Statistics): Introduction to R (09/2015); R Graphics (10/2015).

"On the Cutting Edge" Workshop for Early Career Faculty **June 2014**
Five-day workshop focused on helping new faculty members become better teachers, colleagues, mentors, and researchers to successfully navigate the tenure process.

ADDITIONAL TRAINING AND FIELD/LABORATORY EXPERIENCE (CONTINUED)

Agouron Institute Advanced Geobiology Course **June 2012**

An eighteen-day field campaign in the Pilbara of Western Australia. Field work included mapping, measuring stratigraphic sections, and collecting samples from Paleoproterozoic carbonate rocks and Iron Formations.

GSA Short Course: Sequence Stratigraphy for Graduate Students **October 2009**

Two-day short course designed to teach the principles, concepts, and methods of sequence stratigraphy. Exercises included case studies, outcrop, core, well-log, and seismic data.

Southwest USA Mineral Exploration Field Trip **May 2007**

A seventeen-day trip across the SW USA with a focus on the geological evolution of the states, and mining along the Colorado Mineral Belt (Queen's University).

Modern and Pleistocene Carbonate Sediments **September 2006**

One-week field trip in Bermuda focused on modern and Pleistocene carbonate sediments, water chemistry, phytoplankton ecology, and coral reef species (Queen's University).

CSPG Student Industry Field Trip **May 2006**

Selected for the society-sponsored, two-week field trip of the Canadian Petroleum Industry. Focused on the structural origin of the Rocky Mountains, well logging, reservoirs, seismic imaging, and stratigraphy.

OTHER ACADEMIC EMPLOYMENT

NSERC USRA **May to August 2006**

Analyzed modern sediment samples and created a facies map of the Tasmanian shelf and Bass Straight. This map was then correlated with oceanographic factors such as depth, nutrients, currents, and sediment input. Supervisor: Dr. Noel P. James, Queen's University.

NSERC USRA **May to August 2005**

Created an Ediacaran fossil database and was a field assistant for the NAPC Newfoundland field trip. Supervisor: Dr. Guy Narbonne, Queen's University.

CONFERENCE SESSIONS CONVENED OR ORGANIZED

- **North American Paleontological Convention**
  Organized and chaired the following sessions at the 2024 NAPC Meeting.
  - **NAPC 2024:** Lessons Learned from Phanerozoic Marine Extinctions Applied to Modern Conservation – Conveners: S. Sinha, C.M. Williams, T.N. Stone, **R.C. Martindale**.
  - **NAPC 2024:** Reef Paleoecology in Time and Space – Conveners: A. O'Dea, K. Cramer, **R.C. Martindale**.
- **Second "Gulf of Mexico Reefs" Symposium Coordinator (2023)**
  Organizer for the "Gulf of Mexico Reef Symposium" held at Moody Gardens, November 2023 (www.jsg.utexas.edu/martindale/gom-reef-symposium-2023).
- **GSA Annual Meeting Topical Session Chair**
  Organized and chaired the following topical sessions at the Geological Society of America Annual Meeting.
  - **2022** – New Voices in Geobiology (Session T125). Conveners: A. Putt, A. Cribb, Z. Havlena, T. Hamilton, V. Petryshyn, D. Gold, E. Smith, **R.C. Martindale**, B.M. Gibson, & L.S. Tackett (Oral session)
  - **2021** – New Advances in Geobiology (Session T124). Conveners: T. Hamilton, V. Petryshyn, D. Gold, E. Smith, Z. Havlena, A. Cribb, **R.C. Martindale**, A. Putt, B.M. Gibson, & L.S. Tackett (Oral & Poster sessions)
  - **2020** – New Voices in Geobiology (Session T204). Conveners: Amanda Godbold; Alison Cribb; Andrew Putt; **Rowan C. Martindale**; Victoria Petryshyn; Lydia Tackett; Trinity Hamilton; David Gold; & Simon Darroch (Oral & Poster sessions)
  - **2020** – New Advances in Geobiology (Session T203). Conveners: Trinity Hamilton; **Rowan C. Martindale**; Lydia Tackett; Victoria Petryshyn; David Gold; Andrew Putt; Alison Cribb; Simon Darroch; & Amanda Godbold (Oral & Poster sessions)
  - **2019** – New Voices in Geobiology (Session T41). Conveners: Trinity L. Hamilton, **Rowan C. Martindale**, Victoria Petryshyn, Simon A.F. Darroch, Lydia S. Tackett, David Gold, Andrew D. Putt, Amanda L. Godbold, Daniel S. Jones, Kathryn Hobart & Joshua Feinberg, Advocates (Oral & Poster sessions)
  - **2018** – New Voices in Geobiology (Session T29). Conveners: Victoria A. Petryshyn, Lydia S. Tackett, **Rowan C. Martindale**, Simon A.F. Darroch, Amanda L. Godbold, & Anna M. Weiss (Oral & Poster sessions).
  - **2017** – New Voices in Geobiology (Session T249). Conveners: Victoria A. Petryshyn, Marc Laflamme, Lydia S. Tackett, **Rowan C. Martindale**, Simon A.F. Darroch, Carie M. Frantz, John R. Spear, & Blake W. Stamps (Oral & Poster sessions).
  - **2014** – Major Evolutionary Events of the Early Mesozoic— Paleontology and Paleoecology from the Middle Triassic to the Late Jurassic (Session T205). Conveners: Lydia S. Tackett, **Rowan C. Martindale,** & David Bottjer (Oral & Poster sessions).
  - **2013** – New Insights into Triassic-Jurassic Transition Events and End-Triassic Mass Extinction (Session T238). Conveners: **Rowan C. Martindale**, Morgan F. Schaller, & Jessica H. Whiteside (Oral & Poster sessions)
- **"Gulf of Mexico Reefs" Symposium Coordinator**
  Organizer for the "Gulf of Mexico Reefs: Past, Present and Future" Symposium held at Rice University, October 2018 (www.jsg.utexas.edu/martindale/gulf-of-mexico-reef-symposium/).

- **International Association of Sedimentologists (IAS) Annual Meeting Session Chair**
  Organized and chaired the following topical session at the IAS Annual Meeting.
  - **2016** – The shallow-water perspective on Mesozoic palaeoenvironmental and palaeoclimatic changes (Session SS7). Conveners: R. Martindale, S. Bodin, and S. Huck
- **AGU Annual Fall Meeting Session Chair**
  Organized and chaired the following topical session at the 2015 American Geophysical Union Annual Meeting.
  - **2015** – Toward a Better Understanding of the Impact of Acidification, Warming, and Anoxia on Marine Carbonate Systems (Session PP33C). Conveners: Juan Carlos Silva-Tamayo, Rowan C Martindale, and Bärbel Hönisch (Poster session).
- **Caribbean Coral Reefs at Risk Session Chair**
  Chaired the session, "A View from the Reef: Ecological and genetic approaches to coral reef conservation" at the Caribbean Coral Reefs at Risk Symposium (September 2015) at UT Austin organized by Carlos Ramos-Scharron (Department of Geography).

RECENT CONFERENCE PRESENTATIONS (FIRST AUTHOR/PRESENTER, THE LAST FIVE YEARS)

NOTE: BOLD TEXT = PI; ** = UT GRADUATE STUDENT; § = UT POSTDOC, ‡ = UT UNDERGRADUATE STUDENT*

Martindale, R.C., *Bai, W. ‡,* Sylvester, Z., Trower, E., Kabiri, L., Bodin, S. 2025. Tracking ocean acidification in the Early Jurassic using ooid size to reconstruct carbonate saturation state. GSA Connects Annual Meeting 2025. San Antonio, TX, USA. Geological Society of America Abstracts with Program. Vol. 57, No. 6, 2025.

Martindale, R.C., Kemp, M.E., Matheny, A.M., Turner L., Gordon-Smith, D.A., Bolden, I.W., Henry, D., Trench, C., James-Williamson, S., Ranston-Young, E. *Rahamut, M., Green, A., Gomes, T.*, O'Quin, M., Boville, A.E.*, Esquivel, K., Lawrence III, C., Turner, A. ‡, Tory, A., Palazuelos, D. ‡, Williams, D., Alexander, A., John, Y., Robinson, R., Samaroo, S.* 2025. GEOPAths GO Jamaica 2025: Fostering a learning ecosystem for interdisciplinary Earth scientists through service learning and conservation in Jamaica. GSA Connects Annual Meeting 2025. San Antonio, TX, USA. Geological Society of America Abstracts with Program. Vol. 57, No. 6, 2025.

Martindale, R.C., Kemp, M.E., Turner, L., Henry, D., Gordon-Smith, D.A., Bolden, I.W., *Williams, C.*, Bergan, P., Rahamut, M.O., Haile, B., Chiu, C.Y. ‡, Greene, N., Hong, K., Reyes, A. ‡, Salter, G., Stone, M.,* Trench, C., Matheny, A.M., Alligator Head Foundation. 2024. Lessons learned from the first year of GEOPAths GO Jamaica: Fostering a learning ecosystem for interdisciplinary Earth scientists through service learning and conservation in Jamaica. AGU Annual Meeting 2024.

Martindale, R.C., Bodin, S., *Sinha, S.*,* Krencker, F., *Stone, T.*, Fonville, T.‡*, Little, C., Girguis, P., Kabiri, L., 2024. Updating the taphonomic window of wrinkle structure formation; microbially-induced sedimentary structures in Jurassic turbidites from Morocco. Geological Society of America Connects 2024.

Stone, T.,* **Martindale, R.C.,** Bodin, S., Lathuilière, B., Krencker, F., *Fonville, T.‡*, *Sinha, S.**, Kabiri, L., 2024. Early Jurassic Reef Collapse and Recovery: How kill mechanisms Shifted Reef Regimes. North American Paleontological Convention, Ann Arbor (2024) https://sites.lsa.umich.edu/napc2024/technical-program/

Martindale, R.C., *Sulbaran, B.‡*, *Sinha, S.**, *Salgado-Jauregui, E.*, Williams, C.*,* Cooc, N., 2024. "Reef Survivor": A new board game designed to teach college and university undergraduate students about reef ecology, evolution, and extinction. North American Paleontological Convention, Ann Arbor (2024) https://sites.lsa.umich.edu/napc2024/technical-program/

Martindale, R.C., *Stone, T.*, Fonville, T.‡*, Bodin, S., Krencker, F., Lathuilière, B., *Sinha, S.**, Kabiri, L., 2023. Collapse and Recovery Dynamics of Early Jurassic Reef Ecosystems from the Central High Atlas of Morocco. Geological Society of America Abstracts with Programs. Vol. 55, No. 6. doi: 10.1130/abs/2023AM-391062.

Martindale, R.C., *Sulbaran, B.‡*, *Sinha, S.**, *Salgado-Jauregui, E.*, Williams, C.*,* Cooc, N., 2022. "Reef Survivor" – A New Board Game Designed to Teach College and University Undergraduate Students About Reef Ecology, Evolution, and Extinction. Geological Society of America Abstracts with Programs. Vol. 54, No. 5. doi: 10.1130/abs/2022AM-380343.

Martindale, R.C., Vasseur, R., Lathuilière, B., Bodin, S., *Stone, T.*,* Krencker, F., Lazăr, I., Durlet, C., Debeljak, I., Kabiri, L. 2021. New Perspectives on the significance of the multi-phased Pliensbachian/Toarcian extinction on reef ecosystems. Geological Society of America Abstracts with Programs. Vol 53, No. 6, doi: 10.1130/abs/2021AM-366997

CONFERENCE PRESENTATIONS (CONTINUED)

Martindale, R.C., Nelson, M., Ramos, E., Shuck, B., Fakhreddine, F., Tremaine D.M., Loewy, S., Lowery, C.M., Goudge, T., Christeson,G., Johnson, J.P. 2021. Lessons learned by the UT Austin URGE Megapod and our plan for continued action. Geological Society of America Abstracts with Programs. Vol 53, No. 6, doi: 10.1130/abs/2021AM-368000

Martindale, R.C., *Salgado-Jauregui, E.*,* Ellins, K.E., *Sulbaran, B.‡,* Cook, N., 2021, The Impact of Educational Games on Learning, Engagement, and Equity in Geosciences. Earth Educators Rendezvous. https://serc.carleton.edu/earth_rendezvous/2021/program/posters/wednesday/session2/242739.html

Martindale, R.C., Foster, W.§, Krencker, F.K., Weiss, A.W. *, Ettinger, N.P.*, Bodin, S., 2020, Physical Records of Ocean Acidification in the Geological Record, Abstract PP021-01 presented at 2020 Fall Meeting, AGU, Online, 1-17 Dec.
*2020 AGU Invited Speaker

Martindale, R.C., Weiss, A.M.*, Reyes, E., *Salgado-Jauregui, E.*,* Ellins, K., 2020. Using educational board games to enhance learning and engagement in Paleontology and Geosciences. Geological Society of America Abstracts with Programs. Vol 52, No. 6, 2020. doi: 10.1130/abs/2020AM-351683

Martindale, R.C., *Weiss, A.M.*,* Foster, W.J.§, Muscente, A.D.§, Garvie, C.L., Aberhan, M., and Košir, A. 2019. Paleobiogeographical and paleoecological trends through the late Paleocene and early Eocene: a comparison between reefal and molluscan communities Geological Society of America Abstracts with Programs. Vol. 51, No. 5. doi: 10.1130/abs/2019AM-332913.
*2019 GSA Invited Speaker

Martindale R.C., and *Weiss, A.M.*.* 2019. "Taphonomy: Dead and Fossilized": a new board game designed to teach players about the process of fossilization. *In*: Droser, et al. (2019). 11th North American Paleontological Conference Program with Abstracts. PaleoBios, 36. Retrieved from https://escholarship.org/uc/item/6r18f8wn.

Martindale R.C. Muscente, A.D.§, Schiffbauer, J.D., *Creighton, A.‡*, *Bogan, B.A.‡,* 2019. Taphonomy and Paleoecology of the Early Jurassic Ya Ha Tinda Lagerstätte. Geobiological Society Conference, Banff, AB, Canada.

Martindale, R.C., *Weiss, A.M.*,* and Foster, W.J.§, 2019. Conservation Paleobiology— Using Ancient Examples of Marine Extinctions to Understand and Mitigate Future Ecosystem Collapse. SEPM Research Symposium at the AAPG Annual Convention and Exhibition.
*2019 SEPM Research Symposium Invited Speaker

Martindale, R.C., Bodin, S., Ettinger, N.P.*, Brame, H-M.R., *Kacur, S.M. ‡*, Vasseur, R., Lathuilière, B., Košir, A., Debeljak, I., Thibodeau, A., Larson, T.E., Kerans, C. and Kabiri, L., 2019. The shallow water carbonate record of Early Jurassic Mass extinctions, Oceanic Anoxic Events, and major palaeoenvironmental changes.
*2019 EGU Invited Speaker

RECENT PRESS RELEASES, RADIO INTERVIEWS, AND TV INTERVIEWS

- **FAU News, 2025: Palaeonology**: A small subject has big questions
- **Discover Magazine, 2025:** Fossilized Teeth Offer Clues to Dinosaurs' Favorite Foods About 150 Million Years Ago
- **UT News, 2025:** Clues for Dinosaurs' Diets Found in the Chemistry of Their Fossil Teeth (***Reposted to to multiple sites, e.g., Phys.ord, Futurity)***
- **UT News, 2025:** New Study Shows How 'Marine Revolution' Shaped Ocean Life
- **UT News, 2025:** Design thinking sparks novel research among newly tenured faculty
- **JSG News, 2024:** Field Trip to Jamaica Shows Pathways into the Geosciences
- **NSF I-CORPS HUB, 2023:** NSF I-Corps Ignites Science Education Revolution: Dr. Rowan Martindale's Innovative Board Game Inspires Minds and Sparks Curiosity
- **KXAN (Local TV Station), 2023: '**Golden' fossils reveal new secrets; provide clues to Jurassic extinction event
    - **Video Interview:** www.kxan.com/video/golden-fossils-reveal-new-secrets-provide-clues-to-jurassic-extinction-event/8732978/
- **UT News, 2023** ***(Reposted to multiple sites, e.g., EurekAlert)*****:** "Golden" Fossils Reveal Origins of Exceptional Preservation
- **UT News, 2022** ***(Reposted to multiple sites, e.g., Science Daily, Phys.org)*****:** Well-Preserved Fossils Could be Consequence of Past Global Climate Change
- **UT News, 2022** ***(Reposted to multiple sites, e.g., Science Daily, NewsBreak, and VerveTimes)*****:** Social Networking for Fossils Shows Community Impacts of Mass Extinctions
- **UT News, 2022** ***(Reposted to Science Daily)*****:** Fossil Snail Shells Offer New Tool for Determining Ancient Ocean Chemistry
- **UT News, 2020:** UT Scientists' Fossil-Finding Board Game is a Success in Classrooms
- **UT News, 2020:** Gulf Coast Mollusks Rode Out Past Periods of Climate Change
- **Daily Texan, 2020:** UT-Austin scientists develop fossil board game for university classrooms
- **Laboratory Equipment, 2020:** Fossil-Finding Board Game is a Success in College Classrooms
- **NSF Research News, 2019** ***(Reposted to Science Daily, Phys.org, and ZMEScience)*****:** Fossils may need air to form
- **UT News, 2019:** Exceptional Fossils May Need a Breath of Air to Form
- **Quanta Magazine, 2019:** How Jurassic Plankton Stole Control of the Ocean's Chemistry
    - **Quanta Podcast:** https://podcasts.apple.com/us/podcast/how-jurassic-plankton-stole-control-oceans-chemistry/id1021340531?i=1000490792662
- **UT News, 2019:** Martindale Awarded NSF CAREER Grant for Paleontological Research and Education
- **LiveScience.Tech, 2019:** Climate change could make corals go it alone
- **UT News, 2019** ***(Reposted to Science Daily)*****:** Climate Change Could Make Corals Go It Alone
- **Calgary Herald, 2017:** Rare Jurassic fossils found near Banff
- **Science Daily, 2017:** Exceptionally preserved Jurassic sea life found in new fossil site
- **International Business Times, 2017:** 180-million-year-old relative of vampire squid unearthed at newly-discovered Jurassic fossil bed
- **UT News, 2017 (*Reposted to Science Daily and others)*:** Exceptionally Preserved Jurassic Sea Life Found in New Fossil Site
- **UT News, 2017:** Algae Fortifies Coral Reefs in Past and Present
- **UT News, 2013:** Extinction Detective: Rowan Martindale Investigates the Fates of Ancient Reefs
- **USC News, 2012:** Earth's Past Is Warning for the Future
- **KQED, 2012:** Major Study: Oceans Acidifying at "Unprecedented" Rate
- **KPCC, 2012:** Geologic record testifies to unprecedented changes in ocean chemistry, USC researcher says
- **New Scientist, 2012:** Oceans Acidifying at "Unprecedented" Rate

PROFESSIONAL AFFILIATIONS (NATIONAL AND INTERNATIONAL)

- American Geophysical Union (AGU)
- Conservation Paleobiology Network (CPN)
- Geobiological Society
- Geological Society of America (GSA)
- International Association of Sedimentologists (IAS)
- International Palaeontological Association
- International Coral Reef Society (ICRS)
- International Fossil Coral Reef Society (IFCRS)
- National Association of Geoscience Teachers (NAGT)
- Paleontology Society (PaleoSoc)
- Society for Advancing Chicanos/Hispanics and Native Americans in Science (SACNAS)
- Society for Sedimentary Geology (SEPM)
- Society for the Study of Evolution (SSE)