

BIOGRAPHICAL SKETCH:

Julia Smith Wellner

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Professional Preparation

Institution	Major	Degree	Year
Bryn Mawr College, Bryn Mawr, PA	Geology	A.B.	1993
University of Alabama, Tuscaloosa, AL	Geology	M.S.	1995
Rice University, Houston, TX	Geology and Geophysics	Ph.D.	2001

Appointments

Years(s)	Title
2024-present	Professor, Department of Earth and Atmospheric Sciences, University of Houston
2019-2024	Associate Professor, Department of Earth and Atmospheric Sciences, University of Houston
2018-2023	Adjunct Faculty of the Graduate School, University of Alabama
2013-2019	Assistant Professor, Department of Earth and Atmospheric Sciences, University of Houston
2007-2015	Adjunct Assistant Professor, Department of Earth Science, Rice University
2006-2013	Co-Director Geoscience Learning Center & Research Assistant Professor, Department of Earth and Atmospheric Sciences, University of Houston
2001-2006	Post-doc and lecturer, Rice University

Products

Five Recent Products

Wellner, J. S., T. Scambos, E. Domack, M. Vernet, A. Leventer, G. Balco, S. Brachfeld, M. Cape, B. Huber, S. Ishman, M. McCormick, E. Mosely-Thompson, E. Pettit, C. Smith, M. Truffer, C. Van Dover, K.-C. Yoo, 2019, The Larsen Ice Shelf System, Antarctica (LARISSA): Polar Systems Bound Together, Changing Fast, *GSA Today*, v. 29, n. 8, p. 4-10, doi.org/10.1130/GSATG382A.1.

Troch, M., S. Bertrand, J. S. Wellner, C. B. Lange, and K. A. Hughen, 2023, Postglacial fluctuations of western outlet glaciers of the Southern Patagonian Icefield reconstructed from fjord sediments (Chile, 50°S), *Quaternary Science Reviews*, 107934, doi.org/10.1016/j.quascirev.2022.107934.

*Munoz, Y. P., and J. S. Wellner, 2018, Seafloor geomorphology of western Antarctic Peninsula bays: a signature of ice flow behavior, *The Cryosphere*, 12, 205-225, doi.org/10.5194/tc-12-205-2018.

*Robinson, D., J. Menzies, J. Wellner, and *R. Clark, 2021, Subglacial sediment deformation in the Ross Sea, Antarctica, *Quaternary Science Advances*, doi.org/10.1016/j.qsa.2021.100029.

Wåhlin, A. K., A. Graham, K. A. Hogan, B. Y. Queste, L. Boehme, R. Larter, E. Pettit, J. Wellner, and K. J. Heywood, 2021, Pathways and modification of warm water flowing beneath Thwaites Ice Shelf, West Antarctica, *Science Advances*, doi.org/10.1126/sciadv.abd7254.

Five Other Significant Products

- *Davis, E., K. Rudolph, J. Saylor, T. Lapen, and J. Wellner, 2022, Effects of contemporaneous orogenesis on sedimentation in the Late Cretaceous Western Interior Basin, northern Utah and southwestern Wyoming, *Basin Research*, doi.org/10.1111/bre.12623.
- *Ramon, C., K. Rudolph, P. Emmet, and J. Wellner, 2018, Quantitative Analysis of Siliciclastic Clinoforms: An Example From the North Slope, Alaska, *Marine and Petroleum Geology*, v. 97, p. 127-134, doi.org/10.1016/j.marpetgeo.2018.02.013.
- Koppes, M., B. Hallet, E. Rignot, J. Mouginot, J. S. Wellner, and K. Boldt, 2015, Observed variations in glacial erosion as a function of glacier characteristics, from Patagonia to the Antarctic Peninsula, *Nature*, v. 526, p. 100-103, doi:10.1038/nature15385.
- *Clark, R. W., J. S. Wellner, C.-D. Hillenbrand, R. L. Totten, J. A. Smith, L. M. Simkins, R. D. Larter, K. A. Hogan, A. G. C. Graham, F. O. Nitsche, *A. A. Lehrmann, A. P. Lepp, J. D. Kirkham, V. T. Fitzgerald, *G. Garcia-Barrera, W. Ehrmann, and L. Wacker, 2024, Synchronous retreat of Thwaites and Pine Island glaciers in response to external forcings in the pre-satellite era, *Proceedings of the National Academy of Sciences*, 121 (11) e2211711120, <https://doi.org/10.1073/pnas.2211711120>.
- *Stearns, A. I., J. S. Wellner, J. J. Kendall, and S. D. Khan, 2023, Sediment routing in an incised valley during Hurricane Harvey (2017) in Houston, TX: implications for modern sedimentation, *Geology*, 51(11), p. 995–1000, <https://doi.org/10.1130/G51312.1>.

*student advisee

Selected Recent Synergistic Activities

- 2022-2028 Scientific Committee on Antarctic Research, *U.S. Representative (Geology)*
- 2020-2025 International Thwaites Glacier Collaboration Inclusion, Diversity, Equity, and Accessibility (ITGC-IDEA) *Committee Member*
- 2021-2022 U.S.S.S.P. Developing Science Mission Requirements for a New, Globally-Ranging U.S. Drilling Vessel, *Steering Committee Member*
- 2020-2021 International Ocean Discovery Program *Distinguished Lecturer*