

BIOGRAPHICAL SKETCH:

Julia Smith Wellner
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Professional Preparation

<i>Institution</i>	<i>Major</i>	<i>Degree</i>	<i>Year</i>
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

<i>Years(s)</i>	<i>Title</i>
2013-present	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

- *Campo, J., J. S. Wellner, C. Lavoie, E. Domack, and K.-C. Yoo, 2017, Glacial Geomorphology of the Northwestern Weddell Sea, Eastern Antarctic Peninsula Continental Shelf: Shifting Ice Flow Patterns During Deglaciation, *Geomorphology*, v. 280, p. 89-107, doi:10.1016/j.geomorph.2016.11.022.
- *Muñoz, Y. P., and J. S. Wellner, 2016, Bathymetry as a control of fjord sediment distribution and implications for palaeoenvironmental interpretations, an example from the modern Antarctic Peninsula, *Polar Research*, n. 35, p. 1-15, doi:10.3402/polar.v35.25284.
- 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.
- Subt., C., *K. Fangman, J. Wellner, and B. Rosenheim, 2015, Sediment chronology in Antarctic deglacial sediments: Reconciling organic carbon ¹⁴C ages to carbonate ¹⁴C ages using ramped pyrolysis, *The Holocene*, doi:10.1177/0959683615608688.
- *Barnard, A., J. S. Wellner, and J. B. Anderson, 2014, Small but significant late Holocene regional climate change documented in high-resolution sediment core from the Bransfield Strait, Antarctic Peninsula, *Polar Research*, v. 33, <http://dx.doi.org/10.3402/polar.v33.17236>.

Five Other Significant Products

- Minzoni, R. L., J. B. Anderson, R. Fernandez, and J. S. Wellner, 2015, Holocene climate, ocean, and cryosphere interactions in the eastern Antarctic Peninsula: High-resolution, multi-proxy investigation of Herbert-Croft Fjord, James Ross Island, *Quaternary Science Reviews*, v. 129, p. 239-259.
- Zhou, X., Lu, Z., R.E.M. Rickaby, E.W. Domack, J. Wellner, and H. Kennedy, 2015, Ikaite abundance controlled by porewater phosphorus level: implications for extensive glendonite deposits, *Journal of Geology*, doi:10.1086/681918.
- Ducklow, H., A. Orsi, and J.S. Wellner, 2012, Introduction to the Special Issue on Antarctic Oceanography in a Changing World, *in Antarctic Oceanography in a Changing World, Oceanography*, v. 25, n.3, p. 14-17.
- Wellner, J.S., J.B. Anderson, W. Ehrmann, F.M. Weaver, A. Kirshner, D. Livsey, and A. Simms, 2011, Sedimentologic record of the evolving ice sheet as recorded in SHALDRIL cores from the Northwestern Weddell Sea, Antarctica, *in Anderson, J.B., and Wellner, J.S., eds., Tectonic, Climatic and Cryospheric Evolution of the Antarctic Peninsula, American Geophysical Union Special Volume*, p. 131-151.
- Anderson, J.B. S. Warny, R.A. Askin, J.S. Wellner, S.M. Bohaty, R.T. Smith, A. Kirshner, A. Simms, S.W. Wise Jr., D.K. Kulhenek, F.M. Weaver, W. Ehrmann, W. Majewski, D.L. Barbeau, Jr., 2011, Climate deterioration in the Antarctic Peninsula and the demise of Antarctica's last refugium, *Proceedings of the National Academy of Science*, v. 108, p., 11356-11360, doi:10.1073/pnas.1014885108.

*student authors

Selected Recent Synergistic Activities

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| 2017 | Selected as Co-Chief for IODP Expedition 379, Amundsen Sea West Antarctic Ice Sheet History, January to March 2019 |
| 2017-present | Past Antarctic Ice Sheet Dynamics (PAIS) Scientific Steering Committee |
| 2016 | American Association of Petroleum Geologists Distinguished Lecturer |
| 2015 | Annual Field Trip Leader of National Association of Black Geoscientists |
| 2015 | Field Trip Committee Chair for Gulf Coast Association of Geological Societies |
| 2012-2015 | Scientist Mentor, NASA Education & Public Outreach for Earth and Space Sciences Program, STEP: Creating a Sustainable Trainer Engagement Program for Earth and Space Sciences |
| 2011-2015 | U. S. Delegate to ANDRILL Science Committee |
| 2013 | Antarctic Geologic Drilling Workshop Organizer |