Jon M. Husson

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Education/Employment

(Oct. 2014 →)	**post-doctoral fellow at University of Wisconsin – Madison** *advisor: Shanan Peters*
(2009 – 2014)	**graduate student at Princeton University (Princeton, NJ)**
Sept. 2014	**Ph.D.**, Department of Geosciences Thesis: *Constraining timing and origin of unusual carbon cycle dynamics in the terminal Proterozoic and middle Paleozoic Eons*
May 2011	**M.A.**, Department of Geosciences
(2003 – 2008)	**undergraduate at Harvard University (Cambridge, MA)**
	B.A., Earth and Planetary Sciences, *magna cum laude*

Honors/Awards

- Teaching Award (university-wide), *Association of Princeton Graduate Alumni* (2013)
- Outstanding Teaching Assistant Award, *National Association of Geoscience Teachers* (2013)
- Arnold Guyot Teaching Award, *Princeton Department of Geosciences* (2013)
- NSF Graduate Research Fellow (2010–2014)

Research Methods/Skills

field: high–precision mapping (30–cm 2σ) with the Trimble differential GPS system (R8 GPS base station and GeoXH rover); 15 months field work in Namibia, Canadian Arctic, Tanzania, maritime Canada, central Australia, South Australia, The Bahamas, Cyprus, upstate New York

laboratory: δ^{13}C and δ^{18}O measurements on GasBench II–Thermo Delta Plus and GasBench II–Sercon 20–22 instruments; trace element abundances on a Thermo Element 2 ICP–MS; $\delta^{44/40}$Ca and δ^{26}Mg measurements on a multi-collector Thermo Neptune Plus ICP–MS; U–Pb dating of single zircon grains on a PhoeniX62 TIMS instrument at low blank (Pb_c <1 pg) levels

programming/computing: MATLAB; ArcGIS; QGIS; HTML; Adobe Illustrator; LaTeX

Publications (*italics* denotes in-review/in-press; # denotes student co-author)

- ***Husson, J. M.****, Schoene, B., Bluher, S. E.#, and Maloof, A. C., in review, Chemostratigraphic and U-Pb geochronologic constraints on carbon cycling across the Silurian-Devonian boundary: Earth and Planetary Science Letters.*

- Keller, C. B., Schoene, B., Barboni, M., Samperton, K. M., and **Husson, J. M.**, 2015, Volcanic-plutonic parity and the differentiation of the continental crust: Nature, vol. 523, pp. 301–307.

- **Husson, J. M.**, Higgins, J. A., Maloof, A. C., and Schoene, B., 2015, Ca and Mg isotope constraints on the origin of Earth's deepest δ^{13}C excursion: Geochimica et Cosmochimica Acta, vol. 160, pp. 243–266.

- **Husson, J. M.**, Maloof, A. C., Schoene, B., Chen, C. Y.$^{\#}$, and Higgins, J. A., 2015, Stratigraphic expression of Earth's deepest δ^{13}C excursion in the Wonoka Formation of South Australia: American Journal of Science, vol. 315, pp. 1–45.

- **Husson, J. M.**, Maloof, A. C., and Schoene, B., 2012, A syn-depositional age for Earth's deepest δ^{13}C excursion required by isotope conglomerate tests: Terra Nova, vol. 24, pp. 318–325.

- Rose, C. V., Swanson-Hysell, N. L., **Husson, J. M.**, Poppick, L. N., Cottle, J. M., Schoene, B., and Maloof, A. C., 2012, Constraints on the origin and relative timing of the Trezona δ^{13}C anomaly below the end-Cryogenian glaciation: Earth and Planetary Science Letters, vol. 319, pp. 241–250.

- Higgins, M. B., Robinson, R. S., **Husson, J. M.**, Carter, S. J., and Pearson, A., 2012, Dominant eukaryotic export production during ocean anoxic events reflects the importance of recycled NH^{4+}: Proceedings of the National Academy of Sciences, vol. 109, pp. 2269–2274.

- Johnston, D. T., Poulton, S. W., Dehler, C., Porter, S., **Husson, J.**, Canfield, D. E., and Knoll, A. H., 2010, An emerging picture of Neoproterozoic ocean chemistry: insights from the Chuar Group, Grand Canyon, USA: Earth and Planetary Science Letters, vol. 290, pp. 64–73.

- Hoffman, P., Halverson, G., Domack, E., **Husson, J.M.**, Higgins, J., and Schrag, D., 2007, Are basal Ediacaran (635 Ma) post-glacial "cap dolostones" diachronous?: Earth and Planetary Sciences Letters, vol. 258, pp. 114–131.

Professional Talks (* denotes invited talk; # denotes student co-author)

- **Husson, J.M.** and Peters, S.E., 2015, Macrostratigraphic constraints on the global carbon cycle: Geological Society of America Abstracts with Programs, Vol. 47, No. 7. *(upcoming)*

- **Husson, J.M.***, University of Wisconsion - Madison, Weeks Lecture, September 2015 *(upcoming)*

- **Husson, J.M.**, Peters, S.E. and Czaplewski, J., 2015, Macrostratigraphic constraints on the global carbon cycle: North-Central Geological Society of America Meeting, Vol. 47, No. 5, p. 61.

- **Husson, J.M.***, Washington University, Department Colloquium, April 2015

- **Husson, J.M.***, Johns Hopkins University, Bromery Lecture, January 2015

- **Husson, J.M.**, Higgins, J.A., Maloof, A.C., and Schoene, B., 2014, Ca isotope constraints on the origin of Earth's deepest δ^{13}C excursion: Geological Society of America Abstracts with Programs, Vol. 46, No. 6, p. 401.

- **Husson, J.M.***, Massachusetts Institute of Technology, Geology, Geochemistry and Geobiology seminar, April 2014

- **Husson, J.M.**, Maloof, A.C., Schoene, B., Chen, C.Y.[#], and Higgins, J.A., 2014, Stratigraphic expression of Earth's deepest δ^{13}C excursion in the Wonoka Formation of South Australia: Northeastern Geobiology Symposium at Yale University.

- **Husson, J.M.**[*], Schoene, B., Bluher, S.E.[#], and Maloof, A.C., 2013, Absolute time constraints on the Silurian-Devonian boundary δ^{13}C excursion: William Smith Meeting of the Geological Society of London.

- **Husson, J.M.**, Maloof, A.C., and Schoene, B., 2010, Stratigraphic tests for the origin of the deepest carbon-isotope anomaly in Earth history - the Wonoka Formation of South Australia: Geological Society of America Abstracts with Programs, Vol. 42, No. 5, p. 397.

Professional Posters (# denotes student co-author)

- Wilcots, J.[#], **Husson, J.M.**, and Peters, S.E., 2015, Stromatolite distribution in space and time: a machine-reading assisted quantitative analysis: Geological Society of America Abstracts with Programs, , Vol. 47, No. 7. *(upcoming)*

- **Husson, J.M.**, Maloof, A.C., Schoene, B., and Higgins, J.A., 2013, Does the Shuram δ^{13}C excursion record Ediacaran oxygenation?: presented as PP51B-1948 at Fall Meeting, American Geophysical Union.

- **Husson, J.M.**, Schoene, B., Bluher, S.E.[#], and Maloof, A.C., 2013, Absolute time constraints on the Silurian-Devonian boundary δ^{13}C excursion: American Association of Petroleum Geologists Annual Convention and Exhibition, Pittsburgh, PA.

- **Husson, J.M.**, Maloof, A.C., and Schoene, B., 2012, A syn-depositional age for Earth's deepest δ^{13}C excursion required by isotope conglomerate tests: Fermor Meeting of the Geological Society of London.

Teaching/Advising Experience

- Princeton University Teaching Assistant:

  S2013: **Structural Geology** with Prof. B. Schoene

  F2012: **Fundamentals of Solid Earth Science** with Profs. J. Tromp and J. Higgins

  F2011: **Earth's Environment and Ancient Civilizations** with Profs. A. Maloof and F. Simons

- High school guest teacher in Earth history (2–3x per year; 2009–2014)

- Trained 21 undergraduates to work in geochemistry laboratories and 3 undergraduates as field assistants (2009 – 2013)

- Supervised two independent undergraduate research projects (1 month of field work, 6 months of independent lab work) by Christine Y. Chen ('13) and Sarah E. Bluher ('14). These projects grew into papers co-authored with both undergraduate students (see above).