DANIEL L. JOHNSON

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Division of Geological & Planetary Sciences
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EDUCATION

California Institute of Technology 2014 – present
Ph.D. Candidate, Geochemistry
M.S., Geochemistry (2017)
Cumulative GPA: 3.9

Washington University in St. Louis 2010 – 2014
B.A. Environmental Earth Sciences, Anthropology minor
Graduated Summa Cum Laude

RESEARCH & EMPLOYMENT EXPERIENCE

Rice University, Postdoctoral Research Associate (Starting Nov. 2nd, 2020)
Advisor: Dr. Mark A. Torres

California Institute of Technology, PhD Candidate 2014 – present
PhD Thesis: *"Sulfur Isotopic Insights into the Modern and Paleozoic Sulfur Cycles"*
Advisor: Dr. Jess F. Adkins

International Ocean Discovery Program (IODP), Shipboard Scientist 2016
Inorganic Geochemist on Expedition 363 (Western Pacific Warm Pool)

Washington University in St. Louis, Senior Honors Thesis 2013 – 2014
"Evaluating the Effects of Sediment Reworking on the Sulfur Isotopic Composition of Aqueous and Mineral Sulfides"
Advisor: Dr. David A. Fike

Washington University in St. Louis, Student Laboratory Assistant 2012 – 2014
Stable Isotope Biogeochemistry Laboratory

Columbia University, LDEO Summer Intern, NSF-REU Sites program 2012
Argon Geochronology for the Earth Sciences (AGES) Laboratory
Advisors: Drs. Sidney Hemming, Trevor Williams, & Elizabeth Pierce

AWARDS & RECOGNITIONS

National Science Foundation Graduate Research Fellowship, National Science Foundation 2014 –2019

PUBLICATIONS

Johnson, D. L., Grossman, E.L., Webb, S.M., Adkins, J.F., 2020. Brachiopod $\delta^{34}S_{CAS}$ microanalyses indicate a dynamic, climate-influenced Permo-Carboniferous sulfur cycle. *Earth and Planetary Science Letters* 546, 116428. https://doi.org/10.1016/j.epsl.2020.116428

Rosenthal, Y., Holbourn, A. E., Kulhanek, D. K., Aiello, I. W., Babila, T. L., Bayon, G., Beaufort, L., Bova,

S. C., Chun, J.-H., Dang, H., Drury, A. J., Dunkley Jones, T., Eichler, P. P. B., Fernando, A. G. S., Gibson, K., Hatfield, R. G., **Johnson, D. L.**, Kumagai, Y., Li, T., Linsley, B. K., Meinicke, N., Mountain, G. S., Opdyke, B. N., Pearson, P. N., Poole, C. R., Ravelo, A. C., Sagawa, T., Schmitt, A., Wurtzel, J. B., Xu, J., Yamamoto, M., and Zhang, Y. G., (2018). *Western Pacific Warm Pool*. Proceedings of the International Ocean Discovery Program, 363: College Station, TX (International Ocean Discovery Program). https://doi.org/10.14379/iodp.proc.363.2018.

CONFERENCE PRESENTATIONS

Johnson, D. L., Gutierrez, M., Present, T. M., Peerthum, Y., Marquez, R. T., and Adkins, J. F. (2020). Sedimentary Sulfur Cycling in Deep Ocean Oxygenated Settings. The Weizmann-Caltech Symposium on The Carbon Cycle, Rehovot.

Johnson, D. L., Gutierrez, M., Present, T. M., Peerthum, Y., Marquez, R. T., and Adkins, J. F. (2019). Sedimentary Sulfur Cycling in Deep Ocean Oxygenated Settings. AGU Fall Meeting, San Francisco.

Present, T. M., Goldberg, S. L., Kast, E., Bergmann, K., Finnegan, S., Rae, J. W. B., Burke, A., **Johnson, D. L.**, Fike, D. A., Fischer, W. W. and Cummins, R. (2019). Stability of Upper Ordovician to middle Silurian marine sulfur isotopes recorded in brachiopod carbonate-associated sulfate. AGU Fall Meeting, San Francisco.

Johnson, D. L., Gutierrez, M., Present, T. M., and Adkins, J. F. (2019). Sedimentary Sulfur Cycling in Deep Ocean Oxygenated Settings: Expedition 363 & Beyond. IODP Expedition 363 Science Meeting, Qingdao.

Johnson, D. L., Grossman, E.L., Webb, S. M., and Adkins, J. F. (2019). Single-brachiopod $\delta^{34}S_{CAS}$ Indicates a Dynamic, Climatically-Influenced Permo-Carboniferous S Cycle. Southern California Geobiology Symposium, Pasadena.

Adkins, J. F., **Johnson, D. L.**, and Grossman, E. L. (2018). The Sulfur Isotope Composition of Single-brachiopods and Modern Pore Waters to Constrain the Permo-Carboniferous S cycle. AGU Fall Meeting, Washington, D.C..

Gutierrez, M., **Johnson, D. L.**, Present, T.M., and Adkins, J. F. (2018). Sedimentary Sulfur Cycling in Oxygenated Deep Ocean Settings. Goldschmidt Conference, Boston.

Johnson, D. L., Grossman, E.L., Webb, S. M., and Adkins, J. F. (2018). Single-brachiopod $\delta^{34}S_{CAS}$ Indicates a Dynamic, Climatically-Influenced Permo-Carboniferous S Cycle. Goldschmidt Conference, Boston.

Johnson, D. L., Present, T. M., Fischer, W. W., Webb, S. M., and Adkins, J. F. (2015). Exploring Biogenic Carbonates as Records of the Ancient Sulfur Cycle: A Case Study of *Isotelus* Trilobites and Brachiopods from Anticosti Island, Quebec. Gordon Research Conference (Geobiology), Galveston.

Johnson, D. L., Fike, D. A., and Rose, C. V. (2014). Evaluating the Effects of Sediment Reworking on the Sulfur Isotopic Composition of Aqueous and Mineral Sulfides. AGU Fall Meeting, San Francisco.

Johnson, D. L., Pierce, E. L., Williams, T. J., Hemming, S. R., van de Flierdt, T., Roy, M., Torfstein, A., and Gombiner, J. (2012). Argon Concentrations of Fine-Grained Marine Sediments near Wilkes Land, Antarctica: Source Characterization and Implications for Ice Sheet Behavior during the Middle Miocene. AGU Fall Meeting, San Francisco.

Duchesne, A. E., Pierce, E. L., Williams, T., Hemming, S. R., **Johnson, D. L.**, May, T., Gombiner, J., and Torfstein, A. (2012). K/Ar Dating of Fine Grained Sediments Near Prydz Bay, Antarctica: East Antarctic Ice Sheet Behavior During the Middle-Miocene Climate Transition. AGU Fall Meeting, San Francisco.

TEACHING & MENTORING EXPERIENCE

Research Mentor 2017 – 2019
Mentor to Caltech undergraduate Yashna Peerthum (Spring & Summer 2019)
Mentor to Caltech undergraduate Melissa Gutierrez (Summer & Fall 2018)

Graduate Teaching Assistant 2016 – 2019
Ge 155: Paleoceanography (taught by Dr. Jess F. Adkins), Winter 2019
Ge 101: Introduction to Geology and Geochemistry (taught by Dr. Kenneth A. Farley), Fall 2017
Ge 140a: Stable Isotope Geochemistry (taught by Dr. John M. Eiler), Winter 2017
Ge 1: Earth and Environment (taught by Dr. Paul D. Asimow), Spring 2016

Caltech Y RISE Program, Tutor 2015 – 2016

Undergraduate Teaching Assistant 2014
EPS 323: Biogeochemistry (taught by Dr. Alex Bradley), Spring 2014

EDUCATIONAL OUTREACH & PROFESSIONAL DEVELOPMENT

Caltech Project for Effective Teaching (CPET) 2018-2019
- *Completed Caltech Project for Effective Teaching (CPET) Certificate of Interest in University Teaching*

Caltech Science for March 2018-2019
- *Assisted with event planning and preparation (2018)*
- *Presented an ocean acidification outreach demonstration (2019)*

Caltech Graduate Student Council (GSC) 2015-2018
- *Led organization as Chair (Nov. 2017 – May 2018)*
- *Served as Treasurer (Jun. 2016 – May 2017) and Vice Chair (Jun. 2017 – Nov. 2017)*
- *Organized biannual Graduate Student-Faculty Colloquium as one of four co-chairs (Feb. 2018)*

PUBLIC TALKS

Johnson, D. L., Grossman, E.L., Webb, S. M., and Adkins, J. F. (2019). How an Ancient Ice Age Helped Enable Modern Global Warming. Caltech Reunion Weekend + Seminar Day Graduate Research Spotlight, Pasadena.

MEMBERSHIPS

Geochemical Society 2017 – present

Geological Society of America 2013 – present

American Institute of Professional Geologists 2013 – present

American Geophysical Union 2012 – present