

CARI JOHNSON, PH.D.

CURRICULUM VITAE

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EDUCATION

- 2003 Postdoctoral Research Associate, U.S. Geological Survey & Stanford University
- 2002 Stanford University, Ph.D., Geological and Environmental Sciences
- 1996 Carleton College, B.A., Geology, *magna cum laude*

PROFESSIONAL APPOINTMENTS

- 2016-present Professor, Dept. of Geology & Geophysics, University of Utah
- 2011-present Affiliated Faculty, Global Change & Sustainability Center, U. Utah
- 2019-2022 Associate Dean for Research, College of Mines & Earth Sciences
- 2009-2016 Associate Professor, Dept. of Geology & Geophysics, University of Utah
- 2003-2009 Assistant Professor, Dept. of Geology & Geophysics, University of Utah

RECOGNITIONS AND CAREER HIGHLIGHTS

- Dickinson Award, SEPM (2021)
- Associate Dean for Research, CMES (2019-present)
- Associate Editor, Basin Research (2018-present)
- PinkPetro/Experience Energy GRIT Team Award with Dr. Lauren Birgenheier (2018)
- SEPM Research Councilor (2018-2020)
- Grover E. Murray Memorial Distinguished Educator Award, AAPG (2016)
- SEPM Outstanding Presentation Award, AAPG-ACE Convention (2016)
- Robert Mitchum best paper award (Basin Research, EAGE) (2016)
- Geological Society of America Fellow (elected 2015)
- Department of Geology and Geophysics Faculty Research Award (2015)
- University of Utah Distinguished Mentoring Award (2013)
- Blaustein Fellowship, Stanford University (2013)
- Editorial Boards: Geology (2007-2010), Basin Research (2010-2015), Frontiers in Earth Science (2018-present)
- Associate Editor for GSA Memoir (2015), Utah Geological Assoc. Guidebook (2010)
- University of Utah Faculty Fellow Award (2013)
- Teaching Fellow, Center for Teaching and Learning Excellence, U. Utah (2012-2014)
- Presidential Commission on the Status of Women (2007-2013)
- ConocoPhillips Faculty Sponsorship Award (2011)
- University of Utah Early Career Teaching Award (2010)
- AAPG Student Chapter Advisor (2003-2020), multiple Outstanding Chapter awards

RESEARCH INTERESTS

- Stratigraphy, Sedimentary Basin Analysis, Tectonics, Subsurface Characterization

PROFESSIONAL PUBLICATIONS

57 lifetime peer-reviewed publications. Last 3 years listed below. *Italics* = student advisees. h-index 25; i10-index = 38 ([Google Scholar](https://scholar.google.com/citations?user=...), 1/1/2023).

57. *Reat, E.*, and **Johnson, C.L.**, in press, Light fractions can be heavy hitters: multi-proxy investigations of detrital provenance for the Cretaceous Interior Seaway of Southern Utah, Basin Research. Accepted Feb. 2023.
56. *Tully, J.*, **Johnson, C.L.**, Graham, S.A., Ritts, B.D., and Cope, T., in press, Sedimentary basins of the late Mesozoic extensional domain of China and Mongolia, in Chiarelli, D., ed., Regional Geology and Tectonics: Phanerozoic Rift Systems and Sedimentary Basins, Elsevier.
55. *St. Pierre, G.A.*, **Johnson, C.L.**, 2022, Challenging assumptions of sediment routing in retroarc foreland basins: Detrital zircon evidence for axial versus transverse drainages in the Late Cretaceous of southern Utah, U.S.A., Basin Research, v. 34, n. 6, p. 1960-1982. <https://doi.org/10.1111/bre.12692>
54. **Johnson, C.L.**, Root, J.C., Hynek, S.A., and Schmidt, J.C., 2022, Sedimentary record of annual-decadal timescale reservoir dynamics: Anthropogenic stratigraphy of Lake Powell, Utah, U.S.A., The Sedimentary Record, vol. 20 (1), p. 15-29. <https://doi.org/10.2110/sedred.2022.1.3>
53. McBride, R.A., Anderson, J.B., Buynevich, I.V., Byrnes, M.R., Cleary, W., Fenster, M.S., Fitzgerald, D.M., Hapke, C.J., Harris, M.S., Hein, C.J., **Johnson, C.L.**, Klein, A.H.F., Liu, B., de Menezes, J.T., Mulhern, J.S., Oliver, T.S.N., Pejrup, M., Riggs, S.R., Roberts, H.H., Rodriguez, A.B., Seminack, C.T., Short, A.D., Stone, G.W., Tamura, T., Wallace, D., and Wang, P., 2022 (in press). Morphodynamics of Modern and Ancient Barrier Systems: An Updated and Expanded Synthesis. In: Shroder, J.F. (Editor in Chief), Sherman, D.J. (Ed.), *Treatise on Geomorphology*. Elsevier, San Diego, CA, vol. 9, Coastal and Submarine Geomorphology, p. 289-417. <https://doi.org/10.1016/B978-0-12-818234-5.00153-X>
52. *St. Pierre, G.A.*, **Johnson, C.L.**, 2021, Faulty foundations: Early breakup of the southern Utah Cordilleran foreland basin, Geological Society of America Bulletin, <https://doi.org/10.1130/B35872.1>.
51. *Mulhern, J.S.*, **Johnson, C.L.**, Green, A.N., 2021, When is a barrier island not an island? When it is preserved in the rock record, *Frontiers in Earth Science, Sedimentology, Stratigraphy, and Diagenesis*, v. 8, 560437, doi.org/10.3389/feart.2020.560437.
50. Fernandes, A., and 14 coauthors, 2020, "Enriching Lives within Sedimentary Geology": Actionable Recommendations for Making SEPM a Diverse, Equitable and Inclusive Society for All Sedimentary Geologists, *The Sedimentary Record*, Sept. 2020, p. 4-12, <http://10.31223/osf.io/y7v9e>

INVITED TALKS AND PRESS

~10 interviews concerning Lake Powell reservoir sediment in 2022: KUER, Fox13, The Weather Channel, Salt Lake Tribune, Arizona Daily Star, High Country News, etc.

Trip Leader, Stanford Travel/Study Mongolia, August 2022.

The Muck and the Mire: Tales of Subsidence and Woe from the Kaiparowits Plateau, southern Utah. SEPM Annual Conference Luncheon Keynote (May 2021); University of Arizona Distinguished Lecture Series (September 2019).

GRANTS AND RESEARCH SUPPORT

Abbreviated to last 3 years. Underlined project budgets are fully over-headed contracts. 2019-2022 total new research support is ~\$1.5 million.

- 2022 Isotopic Analysis Applied to Arid Region Hydrological Investigations. U.S. Geological Survey. \$20,000 (2022).
- 2021 Shell Corp: Machine Learning in Shallow Marine Facies. \$50,000 (2021).
- 2020 Rocks2Models: Amendment 3: Outcrop analogs for deltaic subsurface reservoirs. \$457,500 (2020-2022). Total Rocks2Models grants (2012-present) = \$2,007,500.
- 2019 Collaborative Research: Suturing the Heart of Asia: Tectonics of the Mongol-Okhotsk Ocean Closure. NSF-EAR-Tectonics. *Co-PI with Dr. Peter Lippert and Dr. Laura Webb (U. Vermont)*. Total initial award \$960,622 (\$672,114 UU portion; 2019-2021). 2020-22 Supplements total \$203,265 – updated total UU award amount = \$875,379.
- 2019 University of Utah VPR-Seed grant: Sediment flux records in Lake Powell deltas: Broader earth systems perspectives for watershed science. \$22,500 (2019-2020).

TEACHING (last 3 years)

Fall 2022 Sabbatical	Spring 2022 GEO 1100 - Evolving Earth, 3 cr, 40 students
Fall 2021 GEO 3040 – Sedimentology and Stratigraphy. 4 cr, 14 students. *new course prep	Spring 2021 GEO 5920/6920 – Tectonics and Sedimentary Basins. 3 cr, 5 students
Fall 2020 GEO 1100 – Evolving Earth (cotaught w/ R. Irmis). 3 cr, 43 students GEO 5510/6510 – PICP 1a: Intro to Petroleum Systems. 1.5 cr, 4 students GEO 5920/6920 – Modern Carbonate Environments. 1 cr, 12 students	Spring 2020 GEO 5920/6920 – Advanced Depositional Environments. 2 cr, 9 students

ADVISING

25 Former Graduate Student Advisees: 6 Ph.D., 19 M.S. 1 Ph.D. currently in progress. 1 former and 1 current Post-Doctoral Research Associates. ~4 undergraduate researchers per year.

Former Postdoctoral Researcher: Susana Henriquez (2020-2022), Tectonics of the Mongol-Okhotsk Suture Zone. Moved to Assistant Professor at U.C. San Bernadino.
Committee Member, ~6 graduate students per year.

SERVICE, DEVELOPMENT, AND OUTREACH ACTIVITIES (last 3 years)

University Service

2020-2022 GG RPT and Annual Faculty Reviews Committee Chair

2020-2021 GG Executive Committee, Policies and Procedures

2020-present CMES Committee for the Advancement of Inclusion and Diversity (CAID)

Professional Associations, Journals, and Meetings

2018-present Associate Editor, Basin Research

2018-present Review Editor, Frontiers in Earth Science

2020 Geological Society of America Bulletin Outstanding Reviewer

2018-2020 SEPM Research Councilor