

Christine M.S. Hall

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Education

Ph.D. Geosciences, University of California, Riverside, June 2019

Dissertation Topic: Biotic Response to Paleoenvironmental Change in the Ediacaran and Early Cenozoic; GPA: 4.0

Advisors: Dr. Mary Droser and Dr. Sandra Kirtland Turner

M.S. Geosciences, University of California, Riverside, March 2015

B.S. Geology and Biology, The College of William and Mary, May 2012

Professional and Teaching Experience

Postdoctoral Fellow (University of Connecticut): Advisor: Dr. Lisa Park Boush (Jan. 2020-present)

Lecturer (University of California, Riverside): “Principles of Invertebrate Paleobiology and Paleocology” (lecture and lab; Fall 2019)

Instructor (University of California, Riverside): “Oceanography” (lecture and discussion; Summer 2019); “Headlines in the History of Life” (lecture and lab; Summer 2018)

Teaching Assistant (University of California, Riverside): “Global Climate Change” (2013); “Earth’s Climate Through Time” (2013-14); “Oceanography” (2013; Head TA: 2014, 2015, 2017); “Earth Resources & Sustainability” (2015); “Headlines in the History of Life” (2015-16; Head TA: 2017-19); “Principles of Invertebrate Paleobiology and Paleocology” (2016)

Guest Lecturer (University of California, Riverside): “Freshman Advising Seminar in the Natural and Agricultural Sciences” (Fall 2018); “Oceanography” (Fall 2018); “Honors Oceanography” (Winter 2018)

Teaching Assistant (College of William and Mary): “Age of the Dinosaurs” (Spring 2012)

Research Internship (Smithsonian National Museum of Natural History): Internship for senior research thesis; Advisor: Dr. Gene Hunt; Project: Sexual dimorphism and extinction and origination in Late Cretaceous ostracodes from the U.S. Gulf Coastal Plain (Summer 2011)

Teaching Internship (College of William and Mary): Teachers for a Competitive Tomorrow teaching internship with the Elizabeth River Project in Portsmouth, VA (Summer 2010)

Other Educational Experience

UCR Diversity Certificate Program: Program focused on developing and discussing strategies for supporting diversity and inclusion in the classroom and generally in university settings (Spring 2019)

Urbino Summer School in Paleoclimatology: 3-week long summer course focused on past climate dynamics led by ~25 senior scientists from around the world (July 2017)

UCR Science Writing Workshop: 5-week writing workshop focused on communicating science to scientific and non-scientific audiences (Winter 2014)

Professional Service and Community Outreach

11th NAPC Graduate Student Committee Chair: Graduate committee chair and student representative for the 11th North American Paleontological Convention organizing committee (2018-2019)

Co-Project Manager, NSF GEOPATHS-funded program: Geoscientist Development (GEODE): Organize field experiences, internships, undergraduate professional development, and visits to community colleges to draw high school and community college students from underserved communities in Riverside into geoscience majors and careers (2018-2019)

Program Lead, UCR Geoscience Education Outreach Program (GEOP): Develop, coordinate, present, and train others to present K-12 classroom demonstrations, campus visits, and community outreach events in and around Riverside, CA (2015-2019)

Member, Citizens' Climate Lobby: Riverside, CA chapter (2017-2019)

Symposium Convener and Chair, 2019 North American Paleontological Convention: Symposium 4: Avalon to Zaris: A Global Perspective on the Ediacaran Biosphere (June 2019)

Judge, Riverside Unified School District Annual Science and Engineering Fair: Judged elementary, junior, and senior-level projects at the district science fair (2016-2019)

Co-Organizer, Environmental Dynamics and GeoEcology (EDGE) Institute Symposium: Helped organize and presented at an event designed to encourage interdepartmental collaboration on environmental research at UCR (2015)

President, UCR Earth Sciences Graduate Student Association (ESGSA): Department of Earth Sciences, UCR (2014-15)

Volunteer, UCR Climate Fair: Designed and ran a booth for an educational outreach event for the community of Riverside, CA on the science of climate change (2012)

Students Mentored

Shamia Khan: UCR undergraduate student: Eocene ostracode morphometrics (2019); High School: Science Olympiad Dynamic Planet Team (2014-15).

2015-16 Dynamic Planet Teams: Riverside STEM Academy Science Olympiad middle and high school teams.

2014-15 Dynamic Planet Team: Riverside STEM Academy Science Olympiad high school team.

Fellowships, Honors, and Awards

2018: UCR Graduate Research Mentorship Fellowship

2017: UCR Propes Fellowship

2015: Outstanding Teaching Assistant Award

2012: UCR Dean's Distinguished Fellowship

Grants

2016- Geological Society of America Research Grant

2016- Paleontological Society Student Research Grant

2013- American Philosophical Society (APS) Lewis and Clark Fund for Exploration and Field Research in Astrobiology

2018, 2017, 2016, 2015, 2013, 2012- Geological Society of America Cordilleran Section Student Travel Grant

Field Areas and Experience

South Australia (Ediacaran): 2013-present
Anza-Borrego (Miocene-Pliocene): 2018
Coastal California (Holocene): 2017
White-Inyo Region (Early Paleozoic): 2015
Death Valley region and Great Basin (early Paleozoic): 2012-present
Virginia Coastal Plain (Miocene-Pliocene): 2011-2012

Professional Memberships

Geological Society of America (GSA)
Paleontological Society (PS)

Publications

- DROSER, M.L., GEHLING, J.G., TARHAN, L.G., EVANS, S.E., **HALL, C.M.S.**, HUGHES, I.V., HUGHES, E.B., DZAUGIS, M.E., DZAUGIS, M., DZAUGIS, P., and RICE, D., 2019, Piecing together the puzzle of the Ediacara Biota: excavation and reconstruction at the Ediacara National Heritage Site Nilpena (South Australia): *Palaeogeography, Palaeoclimatology and Palaeoecology*, v. 513, p. 132-145, doi: 10.1016/j.palaeo.2017.09.007
- HALL, C.M.S.**, DROSER, M.L., CLITES, E.C., and GEHLING, J.G., 2018, The short-lived but successful tri-radial body plan: a view from the Ediacaran of Australia: *Australian Journal of Earth Sciences*, doi: 10.1080/08120099.2018.1472666
- HALL, C.M.S.**, DROSER, M.L., and GEHLING, J.G., 2018, Sizing up *Rugoconites*: a study of the ontogeny and ecology of an enigmatic Ediacaran genus: *Australasian Palaeontological Memoirs*, v. 51, 7-17.
- HUNT, G., MARTINS, M.J.F., PUCKETT, T.M., LOCKWOOD, R., SWADDLE, J.P., **HALL, C.M.S.**, and STEDMAN, J., 2017, Sexual dimorphism and sexual selection in cytheroidean ostracodes from the Late Cretaceous of the U.S. Gulf Coastal Plain: *Paleobiology*, v. 43, p. 620-641, doi: 10.1017/pab.2017.19
- TARHAN, L.G., HADDAD, E., **HALL, C.M.S.**, DAHL, R.M., HANCOCK, L., HENRY, S.E., JOEL, L.V., THOMSON, T.J., and DROSER, M.L., Invited, 2016, Seafloor colonization in the earliest Paleozoic: evidence from the Cambrian of Death Valley: *Proceedings of the Death Valley Natural History Association*, p. 355-379 (Invited contribution).
- HALL, C.M.S.**, DROSER, M.L., GEHLING, J.G., and DZAUGIS, M.E., 2015, Paleocology of the enigmatic *Tribrachidium*: New data from the Ediacaran of South Australia: *Precambrian Research*, v. 269, p. 183-194, doi: 10.1016/j.precamres.2015.08.009

Selected Conference Presentations

- HALL, C.M.S.**, KIRTLAND TURNER, S., DROSER, M.L., and YAMAGUCHI, T., 2019, Hyperthermal hide and seek: patterns of changing ostracode abundance during early Cenozoic warming events: North American Paleontological Convention (Talk).
- HALL, C.M.S.**, DROSER, M.L., and GEHLING, J.G., 2019, Tri-axial and error: three-fold symmetry in the Ediacaran of South Australia: Geological Society of America Abstracts with Programs, v. 51 (Talk).
- HALL, C.M.S.**, KIRTLAND TURNER, S., and DROSER, M.L., 2018, Changing North Atlantic ostracode abundance and diversity in response to an Eocene hyperthermal event: Geological Society of America Abstracts with Programs, v. 50 (Talk).

- DROSER, M.L., GEHLING, J.G., EVANS, S.D., TARHAN, L.G., **HALL, C.M.S.**, DZAUGIS, M.E., DZAUGIS, M.P., DZAUGIS, P., HUGHES, I.V., HUGHES, E.B., and RICE, D., 2017, Snapshots and long exposures: Picturing life in the Ediacaran: Geological Society of America Abstracts with Programs, v. 49 (Talk given by M.L. Droser).
- HALL, C.M.S.**, KIRTLAND TURNER, S., and DROSER, M.L., 2017, Ostracode response to changing environments during Eocene Thermal Maximum 2 in the equatorial Atlantic: Geological Society of America Abstracts with Programs, v. 49 (Poster).
- HALL, C.M.S.**, KIRTLAND TURNER, S., and DROSER, M.L., 2017, Ostracode response to Eocene Thermal Maximum 2: Climatic and Biotic Events of the Paleogene (Poster/Lightning talk).
- HALL, C.M.S.**, TARHAN, L.G., EVANS, S.D., DZAUGIS, M.P., HUGHES, E.B., HUGHES, I.V., DROSER, M.L., and GEHLING, J.G., 2016, Picking out the fabric of the Ediacara seafloor: Evidence of widespread, heterogeneous textured organic surfaces: Geological Society of America Abstracts with Programs, v. 48 (Talk).
- HALL, C.M.S.**, DROSER, M.L., and GEHLING, J.G., 2016, Sizing up *Rugoconites*: A study of the ontogeny and ecology of an enigmatic Ediacaran genus: Palaeo Down Under 2 (Poster).
- WERNETTE, S.J., EVANS, S.D., **HALL, C.M.S.**, DROSER, M.L., and KOLENKO, R.L., 2016, Size frequency distribution biases in horseshoe crab molt assemblages: Implications for the fossil record: Geological Society of America Abstracts with Programs, v. 48 (Talk given by S.J. Wernette).
- HALL, C.M.S.**, DROSER, M.L., and GEHLING, J.G., 2015, Branching out: Ecology and ontogenetic patterns of the Ediacaran Fossil *Rugoconites*: Geological Society of America Abstracts with Programs, v. 47 (Poster).
- HUNT, G., PUCKETT, T.M., FERNANDES MARTINS, M.J., **HALL, C.M.S.**, LOCKWOOD, R., and SWADDLE, J.P., 2015, Sexual dimorphism as a proxy for sexual selection in Cretaceous ostracodes from the US Gulf Coastal Plain: Geological Society of America Abstracts with Programs, v. 47 (Talk given by G. Hunt).
- HALL, C.M.S.**, DROSER, M.L., GEHLING, J.G., and DZAUGIS, M.E., 2014, From beginning to belly up: Size distributions and the preservation of the base of the Ediacara fossil *Tribrachidium*: Geological Society of America Abstracts with Programs, v. 46 (Poster).
- SOLON, C.M.**, DROSER, M.L., GEHLING, J.G., and DZAUGIS, M.E., 2014, Paleoecology of *Rugoconites* and *Tribrachidium*: New data from the Ediacaran of South Australia: 10th North American Paleontological Convention, The Paleontological Society Special Publications, Session 11-2, v. 13, p. 46-47 (Talk).
- TARHAN, L.G., HADDAD, E., **SOLON, C.M.**, DAHL, R.M., HANCOCK, L.G., HENRY, S.E., JOEL, L.V., THOMSON, T.J., and DROSER, M.L., 2013, Seafloor colonization in the earliest Paleozoic: evidence from the Cambrian of Death Valley: First Annual Conference of the Death Valley Natural History Association (Talk given by L.G. Tarhan).
- SOLON, C.M.**, DROSER, M.L., and GEHLING, J.G., 2013, Populations and variations in the Ediacaran fossil taxon *Rugoconites*: Geological Society of America Abstracts with Programs, v. 45 (Poster).
- SOLON, C.M.**, LOCKWOOD, R., HUNT, G., and PUCKETT, T.M., 2012, Sexual dimorphism and extinction and origination in Late Cretaceous ostracodes from the U.S. Gulf Coastal Plain: Geological Society of America Abstracts with Programs, v. 44 (Poster).

SOLON, C.M., LOCKWOOD, R., HUNT, G., and PUCKETT, T.M., 2012, Sexual dimorphism and species selection in Late Cretaceous fossil ostracodes from the U.S. Gulf Coastal Plain: Geological Society of America Abstracts with Programs, v. 44 (Poster).

Research Interests

Paleontology, paleoecology, paleoclimatology, paleoceanography, geobiology, earth systems, micropaleontology, biostratigraphy, ostracoda, Ediacara Biota, PETM, Eocene hyperthermal events, triradialomorphs, earth science education