

CURRICULUM VITAE

JONATHAN R. HENDRICKS

CONTACT INFORMATION

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EDUCATION

Ph.D. – Cornell University, Geological Sciences, 2005. Dissertation advisor: Warren Allmon.
Dissertation title: “Fossil Record, Evolutionary History, and Paleobiology of Plio-Pleistocene *Conus* from the Southeastern United States.”
B.S. – University of Wisconsin-Madison, Geology & Geophysics, Zoology, 1999.

PROFESSIONAL EXPERIENCE

Assistant Professor, San Jose State University. August 2008-Present
Post Doctoral Researcher, University of Kansas. September 2005-June 2008.
Lecturer, University of Kansas. Fall 2005, Fall 2006, Summer 2008.
Teaching Assistant, Cornell University. Nine semesters, 2000-2005.
Collections Assistant, Paleontological Research Institution. Ithaca, New York, 2002-2005.

NATIONAL SERVICE

AmeriCorps National Service Program, 1999-2000.

RESEARCH INTERESTS

Invertebrate paleontology and zoology (especially Cenozoic mollusks and Cambrian arthropods), macroevolution, the Cambrian radiation, species interactions, the relationships between biological diversity and environmental change through time, paleobiogeography, and phylogenetic systematics.

COURSES TAUGHT

San Jose State University: Prehistoric Life (Geol 107; 5 semesters); Paleontology (Geol 126; 2 semesters); Advanced Paleontology (Geol 255, 1 semester); Graduate Seminar on the Cambrian Explosion (Geol 285; 1 semester).

University of Kansas: Historical Geology (Geol 105; 1 semester); Prehistoric Life (Geol 121; 2 semesters).

RESEARCH PUBLICATIONS

2010

Smith, U. E. and **J. R. Hendricks**. Accepted pending revisions. Geometric morphometric character suites as phylogenetic data: extracting phylogenetic signal from gastropod shells. *Systematic Biology*.

Hendricks, J. R. Accepted pending revisions. Global distributional dynamics of Cambrian clades as revealed by Burgess Shale-type deposits. In: *Early Palaeozoic Palaeobiogeography and Palaeogeography* (Geological Society Memoir Series).

2009

Hendricks, J. R. 2009 (2008). The genus *Conus* (Mollusca: Neogastropoda) in the Plio-Pleistocene of the southeastern United States. *Bulletins of American Paleontology*, Number 375, 178 pp., 20 plates (Monograph).

Hendricks, J. R. 2009. Sinistral snail shells in the sea: developmental causes and consequences. *Lethaia*, v. 42(1), p. 55-66.

Hendricks, J. R., R. W. Portell, G. L. Polites. 2009. An aberrant sinistral *Conus* (Neogastropoda: Conidae) from the Miocene of Florida, USA. *The Nautilus*, v. 123(4), p. 317-318.

2008

Briggs, D. E. G., B. S. Lieberman, **J. R. Hendricks**, S. L. Halgedahl, and R. D. Jarrard. 2008. Middle Cambrian arthropods from Utah. *Journal of Paleontology*, v. 82(2), p. 238-254.

Hendricks, J. R. and B. S. Lieberman. 2008. New phylogenetic insights into the Cambrian radiation of arachnomorph arthropods. *Journal of Paleontology*, v. 82(3), p. 585-594.

Hendricks, J. R., B. S. Lieberman, and A. L. Stigall. 2008. Using GIS to study the palaeobiogeography of soft-bodied Cambrian arthropods. *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 264, p. 163-175.

Hendricks, J. R. and R. W. Portell. 2008. Late Eocene *Conus* (Neogastropoda: Conidae) from Florida, U.S.A. *The Nautilus*, v. 122(2), p. 79-93.

Hermesen, E. J. and **J. R. Hendricks**. 2008. W(h)ither fossils? Studying morphological character evolution in the age of molecular sequences. *Annals of the Missouri Botanical Garden*, v. 95(1), p. 72-100. doi: 10.3417/2006206

2007

Cartwright, P., S. L. Halgedahl, **J. R. Hendricks**, R. D. Jarrard, A. C. Marques, A. G. Collins, and B. S. Lieberman. 2007. Exceptionally preserved jellyfishes from the Middle Cambrian. *PLoS One*, v. 2(10), e1121. (doi:10.1371/journal.pone.0001121). *This publication was covered in the November 6, 2007 print edition of the New York Times, the November 15, 2007 print edition of Nature (Research Highlights section), as well as by the following online media: Deseret News, National Geographic, Lawrence Journal World, MSNBC, Science Daily, The San Francisco Chronicle, and United Press International. Further, this research was highlighted on the National Science Foundation website.*

Hendricks, J. R. and B. S. Lieberman. 2007. Biogeography and the Cambrian radiation of arachnomorph arthropods. *Association of Australasian Palaeontologists, Memoir 34*, p. 29-39.

Hermesen, E. J. and **J. R. Hendricks**. 2007. A method for constraining the age of origination of derived characters. *Cladistics*, v. 23, p. 169-179.

Stigall, A. L. and **J. R. Hendricks**. 2007. First report of a concavicularid interior (Crustacea: Thylacocephala) from the Devonian of North America. *Northeastern Geology and Environmental Sciences*, v. 29, p. 102-106.

2006

Dietl, G. P. and **J. R. Hendricks**. 2006. Crab scars reveal survival advantage of left-handed snails. *Biology Letters*, v. 2, p. 439-442 (doi:10.1098/rsbl.2006.0465). *This publication was covered by the following media: BBC News, The Daily Telegraph, The Economist, National Geographic, Associated Press, Yale Daily News, and was featured as a quiz show question on Michael Feldman's NPR "Whad'ya Know" show on March 25, 2006.*

Hermesen, E. J. and **J. R. Hendricks**. 2006. Spotlight: The hierarchy of time. *Palaios*, v. 21, p. 403-405.

Research presented at professional meetings and symposia:

Hendricks, J. R. and U. E. Smith. 2010. Elements of the extant eastern Pacific *Conus* (Neogastropoda) fauna in the Neogene of the Dominican Republic and southeastern United States. Geological Society of American Annual Meeting.
http://gsa.confex.com/gsa/2010AM/finalprogram/abstract_179122.htm

Hendricks, J. R. 2010. Global distributional dynamics of Cambrian clades as revealed by Burgess Shale-type deposits. Paleontological Research Institution Summer Symposium, August 13-14, 2010, Ithaca, New York.

Hendricks, J. R. and U. Smith. 2008. Fossil specimens, data integration, and phylogeny reconstruction of long-lived, modern clades. Geological Society of America Annual Meeting.
<http://a-c-s.confex.com/crops/2008am/webprogram/Paper48061.html>

- Hendricks, J. R., B. S. Lieberman, and A. L. Stigall. 2007. Using GIS to study the paleobiogeography and macroevolution of soft-bodied Cambrian arthropods. Geological Society of America Annual Meeting.
http://gsa.confex.com/gsa/2007AM/finalprogram/abstract_125235.htm
- Hendricks, J. R. and E. J. Hermsen. 2007. Paleontologically informed supermatrices: fossils and phylogenetics in the age of genomics. Joint Meeting of the South-Central and North-Central Sections of the Geological Society of America.
http://gsa.confex.com/gsa/2007SC/finalprogram/abstract_119997.htm
- Hendricks, J. R. and B. S. Lieberman. 2006. New insights into the Cambrian radiation: phylogenetic patterns in Cambrian arachnomorphs (Arthropoda). Geological Society of America Annual Meeting.
http://gsa.confex.com/gsa/2006AM/finalprogram/abstract_110921.htm
- Hendricks, J. R., S. L. Halgedahl, B. S. Lieberman, and R. D. Jarrard. 2006. Crown-group cnidarians from the Cambrian of Utah.
http://gsa.confex.com/gsa/2006AM/finalprogram/abstract_111533.htm
- Hendricks, J. R. 2005. Evolutionary history of Plio-Pleistocene *Conus* from the southeastern United States. Geological Society of American Annual Meeting.
http://gsa.confex.com/gsa/2005AM/finalprogram/abstract_95388.htm
- Hendricks, J. R. and G. Dietl. 2004. Is there a survival-related advantage of sinistral coiling in marine snails? Geological Society of America Annual Meeting.
http://gsa.confex.com/gsa/2004AM/finalprogram/abstract_76278.htm
- Hendricks, J. R. 2003. Homology and homoplasy in *Conus* (Neogastropoda) shell characters: a test of phylogenetic signal using molecular and morphological data. Geological Society of America Annual Meeting.
http://gsa.confex.com/gsa/2003AM/finalprogram/abstract_64235.htm
- Hendricks, J. R. and W. D. Allmon. 2002. The evolutionary history and paleobiology of the sinistral cones. Geological Society of America Annual Meeting.
http://gsa.confex.com/gsa/2002AM/finalprogram/abstract_42509.htm
- Hendricks, J. R. and W. D. Allmon 2000. Why are there so many sinistrally coiling conid gastropods in the Pinecrest Beds of southern Florida? Geological Society of America Annual Meeting. <http://rock.geosociety.org/docs/absindex/annual/2000/51388.htm>
- Hermsen, E. J. and J. R. Hendricks. 2006. Contributions of fossil taxa to understanding morphological character evolution.
<http://www.2006.botanyconference.org/engine/search/index.php?func=detail&aid=364>

AWARDS

Brayfield Scholarship Award, Southwest Florida Fossil Club, 2005.
Vokes Award, Florida Museum of Natural History, 2005.

GRANTS

California State University (CSU) Research Fund, 2010.
San Jose State University Junior Faculty Career Development Grant, 2009.
California State University (CSU) Research Fund, 2008.
Geological Society of America Graduate Student Research Grant, 2004.
Geological Society of America Graduate Student Research Grant, 2003.
Paleontological Society Student Research Grant, 2001.
American Museum of Natural History Lerner-Gray Fund, 2001.
Conchologists of America Student Research Grant, 2001.

EDUCATIONAL WEBSITE PRODUCTION

Designed and produced the “Utah’s Cambrian Life” webpage: www.kumip.ku.edu/cambrianlife/

EDUCATIONAL OUTREACH

Bay Area Earth Science Institute (BAESI) Instructor:
[November 15, 2008: Earth and Life Through Time](#) (hyperlink)
[March 14, 2009: The Fossil Record](#) (hyperlink)
[May 10, 2010: Exploring for Oil and Gas](#) (hyperlink)
[October 9, 2010: Plate Tectonics](#) (hyperlink)

Earth Sciences Judge: 2010 Intel International Science and Engineering Fair, San Jose, CA.

OTHER PUBLICATIONS

Popular articles:

Hendricks, J. R. 2010. The orange pill bottle. *American Paleontologist*, 18(2):5.

Hendricks, J. R. 2005. Glowing shells! The utility of ultraviolet light for identifying fossil snail species from southern Florida. *Southwest Florida Fossil Club Newsletter*.

Hendricks, J. R. and W. D. Allmon. 2003. Cones: the shell of choice for evolution. *American Paleontologist*, 11(2):3-6.

Book reviews:

Review of Everhart’s *Oceans of Kansas*. 2006. *Great Plains Research*, 16(2): 203.

Review of Foote and Miller’s *Principles of Paleontology*, 3rd Edition. 2007. *Palaios*.

INVITED PRESENTATIONS

“Sinister Seashells! Paleobiology of an Extinct, Venomous, Left-Handed Snail” – June 22, 2009
– Naturhistorisches Museum Basel, Switzerland.

“Sinister Seashells!” - 2007 meeting of the Florida Paleontological Society, Gainesville, Florida -
May, 2007.

ORGANIZATIONAL SERVICE

Councilor-at-Large. Current. American Malacological Society.

Session Co-Convener. 2008 Annual Meeting of the Geological Society of America. Session
Title: Integrative Systematic Paleontology for a New Century: Advancing Evolutionary,
Phylogenetic, Biogeographic, and Ecologic Theory with Specimen-Based Studies.

Judge of Student Posters. 2008 Annual Meeting of the Geological Society of America.

ADDITIONAL EXPERIENCE & SKILLS

Grant writing. Have been an active participant in organizing and/or writing six National Science
Foundation grant proposals.

Student participant, Evolution and Development of the Metazoans, Friday Harbor Laboratories,
University of Washington, 2001.

Student participant, Wasatch-Uinta Geological Field Camp (through UW-Madison), Park City,
Utah, 1999.

Experienced in using the following software programs: ArcGIS, PaleoGIS, WinClada, NONA,
TNT, Adobe Photoshop, Adobe Illustrator, Dreamweaver, Blackboard.

Have conducted paleontological/geological fieldwork in the following states: California,
Florida, Kansas, Montana, Nebraska, New York, Utah, and Wisconsin.

Reviewer, Journal of Paleontology, Palaios, Acta Palaeontologica Polonica, Systematic Biology.

SOCIETY & ORGANIZATIONAL MEMBERSHIPS

American Malacological Society.
Geological Society of America.
Paleontological Research Institution.
Paleontological Society.
Willi Hennig Society.

