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EDUCATION

2008 Ph.D. in Geology, University of Georgia
2003 M.S. in Geological Sciences, University of California, Riverside
2000 B.S. with honors in Geophysical Sciences, University of Chicago

PROFESSIONAL APPOINTMENTS

2012-present Director & Mentor, History of Life Internship Program, Department of Geological Sciences, Stanford University
2016-present Basic Life Science Research Scientist, Department of Geological Sciences, Stanford University
2012-2016 Basic Life Science Research Associate, Department of Geological Sciences, Stanford University
2011-2012 Assistant Scientist, Department of Geoscience, University of Wisconsin-Madison
2008-2011 Postdoctoral Research Associate, Department of Geoscience University of Wisconsin-Madison
2005-2006 Adjunct Instructor, Science Department, Georgia Perimeter College
2000-2001 High School Instructor, Maine School of Science and Mathematics
2000 Summer Camp Director, Maine School of Science and Mathematics

ADDITIONAL EDUCATION & TRAINING

2015 Beginning Programming: JavaScript, Stanford University
2013 Applied Ichnology: The Use of Trace Fossils in Sequence Stratigraphy, Exploration & Production Geology
2013 The Writer's Studio, Stanford University
2010-2011 Delta Program in Research, Teaching and Learning, University of Wisconsin-Madison
2002 Friday Harbor Laboratories, Marine Invertebrate Zoology, University of Washington

UNIVERSITY TEACHING EXPERIENCE

Stanford University

Instructor, Department of Geological Sciences

Gulf of California Oceanography, Geology & Biology, Spring 2016

Co-Instructor, Department of Geological Sciences

Paleobiology, Spring 2013, 2016

“Big Data” in Historical Earth Systems Science, Spring 2014

University of Wisconsin-Madison

Co-Instructor, Department of Geoscience

Invertebrate Paleontology, Winter 2011

Geoscience Data Analysis, Spring 2012

Seminar in Paleontology, Fall 2010

Guest Lecturer, Department of Geoscience

Paleobiology: 2 lectures on diversity and the fossil record, Spring 2009

Evolution & Extinction: 1 lecture on the Permian mass extinction, Fall 2010

Evolution & Extinction: 2 lectures on evolutionary development and adaptation, Fall 2012

Georgia Perimeter College

Adjunct Instructor, Science Department

Physical Geology Lecture, Spring 2006

Physical Geology Lab, Spring 2005

University of California, Riverside

Teaching Assistant, Department of Earth Sciences

Oceanography, Fall 2002

The Earth's Dynamic Surface, Winter 2003

Natural Hazards and Disasters, Spring 2003

ADDITIONAL RESEARCH EXPERIENCE

2003-2008 Graduate Research Assistant, Department of Geology, University of Georgia

2001-2003 Graduate Research Assistant, Department of Earth Sciences, University of California, Riverside

1998-2000 Undergraduate Thesis Research, Geology Department, Field Museum of Natural History and Department of the Geophysical Sciences, University of Chicago

- 1999 Internship, Paleobiology Department, National Museum of Natural History, Smithsonian Institution
- 1998-2000 Research Assistant, Department of the Geophysical Sciences, University of Chicago
- 1997-1998 Volunteer dinosaur fossil preparator, University of Chicago

UNDERGRADUATE RESEARCH STUDENTS

- 2015-2016 Mary Cirino (Stanford Computer Science), Building a species-level body-size database using PaleoDeepDive

UNDERGRADUATE WORKERS

- 2016-present Nicole Childs (Stanford Geological Sciences), Gastropod body size data collection
- 2016-present Osanna Vivian Drake (Stanford Geological Sciences), Bivalve body size data collection
- 2016 Joanna Tang (UC Davis Env. Sci.), Fish & trilobite body size data collection
- 2016 Natalie Cheng (Stanford Post-baccalaureate), Bivalve body size data collection
- 2015-2016 Rebia Khan (Stanford Biology), Fish body size data collection
- 2015-2016 Margaret Deng (UC San Diego Earth Sci.), Fish and protist body size data collection
- 2012-2014 Galen Griggs (U. Wash. Post-baccalaureate), Marine animal body size data collection

OUTREACH & K-12 FIELD TRIPS

- 2015 Paleontology of Monterey Formation, Santa Cruz Mountains, Discovery Charter School, San Jose, 5th grade
- 2015 Geological Walking Tour of Stanford's Building Stones, The Girls' Middle School, Palo Alto, 6th grade
- 2015 Sedimentary Geology of the Panoche Hills, History of Life Interns, High School
- 2013-2015 Geology & Paleontology of New Brighton Beach, History of Life Interns, High School
- 2014, 2015 Geology & Paleontology of New Brighton Beach, Bay Area Science Festival, General Public
- 2014, 2015 Paleontology of the Monterey Formation, Salinas Valley, History of Life Interns, High School
- 2014, 2015 Geological Hiking Tour of Pinnacles National Park, History of Life Interns, High School
- 2014 Sedimentary Geology of Black Diamond Mines, History of Life Interns, High School
- 2013, 2014 Tide Pools at Bean Hollow, History of Life Interns, High School
- 2001 Paleontology of the Fossil Cliffs at Joggins & Parrsboro, Nova Scotia, Maine School of Science and Mathematics, High School

OTHER OUTREACH & K-12 TEACHING EXPERIENCE

- 2016 Invited Speaker, Think Evolution VIII: A Summer Institute for Science Educators, University of California Museum of Paleontology, Berkeley, California
- 2015 STEM Career Panel, Upward Bound Math & Science, University of San Francisco
- 2012-present Director and Mentor, History of Life Internship Program Director, School of Earth, Energy & Environmental Sciences, Stanford University
- 2005-2006 Guest Programs Volunteer (Docent), The Georgia Aquarium, Atlanta
- 2000-2003 Middle School Instructor, Maine School of Science & Mathematics Summer Camps, Limestone, Maine
- 2000-2001 High School Instructor, Maine School of Science & Mathematics, Limestone, Maine
- 2000-2001 Resident Assistant, Maine School of Science and Mathematics, Limestone, Maine (high school dorm)

PRINCIPAL FIELD EXPERIENCE

- 2010 Cretaceous stratigraphy and sedimentology of the Book Cliffs, Utah. Two weeks.
- 2005-2007 Mississippian and Pennsylvanian invertebrate paleontology of the southern Ozark Uplift, Arkansas and Oklahoma. Approximately three weeks annually.
- 2005 Permian sequence stratigraphy, Guadalupe Mountains, west Texas. One week.
- 2004 Carboniferous invertebrate paleontology of the Basin & Range Province and the southern Ozark Uplift. Four weeks.
- 2001 Cambrian paleontology of the Tethyan Himalaya, Ladakh, India. Five weeks.
- 1999 Paleocene and Eocene paleobotany of the Big Horn Basin, Wyoming. Four weeks.
- 1997 Cretaceous dinosaur paleontology, central and eastern Montana. Eight weeks.

GROUP RESEARCH INITIATIVES

- 2014-2015 NESCent Working Group: Evolutionary Macroecology of Body Size
- 2008-2012 Developer and contributor, Macrostrat (<http://macrostrat.org>)
- 2003-present Member, The Paleobiology Database (<http://paleobiodb.org>)

SERVICE

- 2015-present Proposal Reviewer, European Research Council
- 2015-present Proposal Reviewer, National Science Center, Poland
- 2013-present Proposal Reviewer, NSF Sedimentary Geology & Paleobiology Program

2006-present	Manuscript Reviewer
	<i>Computers & Geosciences</i> <i>Journal of the Geological Soc.</i> <i>Paleontological Soc. Special Pubs.</i> <i>Ecology</i> <i>Journal of Paleontology</i> <i>Peer J</i> <i>Geology</i> <i>Palaeontology</i> <i>PLoS One</i> <i>Global Change Biology</i> <i>PALAIOS</i> <i>Proceed. of the Royal Soc. B</i> <i>Journal of Geology</i> <i>Paleobiology</i> <i>Scientific Reports</i>
2004-2008	Geology Department Representative, Graduate Student Association, University of Georgia
2007-2008	Graduate Student Representative, Geology Department Faculty Meetings, University of Georgia
2007	Session co-chair, <i>Geographic Diversity Patterns</i> , GSA Annual Meeting, Denver, Colorado
2005-2007	Secretary and Webmaster, Graduate Student Association, University of Georgia
2003	Co-organizer, Grad Fest, Evolution & Ecology Graduate Research Unit, University of California, Riverside
2002-2003	Co-organizer, Hewett Club Lecture Series, Department of Earth Sciences, University of California, Riverside

INVITED PRESENTATIONS

2016	Department of Earth Sciences, Dartmouth College, Hanover, New Hampshire
2016	Think Evolution Workshop, University of California Museum of Paleontology, Berkeley
2016	Department of Earth & Planetary Sciences, University of California, Davis
2016	Department of Earth & Planetary Sciences, University of California, Santa Cruz
2016	Department of Biology, University of San Francisco
2015	Department of Geology, University of Georgia, Athens
2015	Department of Geology, Grand Valley State University, Allendale, Michigan
2014	Department of Geology & Environmental Earth Science, Miami University of Ohio
2013	University of New Mexico, Albuquerque
2013	University of California Museum of Paleontology, Berkeley
2012	School of Geography & Geosciences, University of St. Andrews, Scotland, UK
2012	William Smith Meeting 2012, <i>Strata and Time: Probing the gaps in our understanding</i> , London
2012	Geosciences Program, Midwestern State University, Wichita Falls, Texas
2011	Evolution Seminar Series, Crow Institute, University of Wisconsin-Madison
2009	Department of the Geophysical Sciences, University of Chicago
2008	Department of Geoscience, University of Wisconsin-Madison
2008	Department of Geology, Geography & Planning, Missouri State University

FELLOWSHIPS

- 2005-2008 US EPA Science to Achieve Results (STAR) Graduate Fellowship (3 years full funding)
2003-2005 Graduate School Assistantship, University of Georgia (2-year competitive assistantship)
2001 Summer Fellowship, Evolution & Ecology Graduate Research Unit, University of California, Riverside
2001-2002 Dean's Fellowship, Graduate Division, University of California, Riverside

GRANTS

- 2004 Stephen J. Gould Grant, Paleontological Society
Geological Society of America Research Grant
Gilles and Bernadette Allard Award, Department of Geology, University of Georgia
Miriam Watts-Wheeler Award, Department of Geology, University of Georgia

AWARDS & HONORS

- 2015 Heim *et al.* (2015) recommended by *Faculty of 1000*
2008 Graduate Student of the Year, Department of Geology, University of Georgia
1997-2000 Dean's List, University of Chicago

PROFESSIONAL AFFILIATIONS

The Geological Society of America
The Paleontological Society
The Palaeontological Association
SEPM—Society for Sedimentary Geology
American Geophysical Union

COMPUTER, INTERNET & STATISTICAL PROGRAMMING LANGUAGES

R – statistical programming language
PostgreSQL and PostGIS – relational database and GIS spatial extension
MySQL – relational database
PHP – programming language that interfaces with HTML, PostgreSQL and MySQL
JavaScript – programming language for making interactive web applications
C – general computer programming language

JOURNAL ARTICLES IN REVIEW OR REVISION

N.A. Heim, S. Finnegan, M.L. Knope, M. Kowalewski, S.K. Lyons, C.R. McClain, D.W. McShea, P.M. Novack-Gottshall, J.L. Payne, Smith, F.A., and S.C. Wang. *in submission*. Hierarchical structure and the size limits of life. *Proceedings of the National Academy of Sciences of the U.S.A.* *Submitted October 2016.*

McClain, C.R., **N.A. Heim**, M.L. Knope, and, J.L. Payne. *in review*. Is biodiversity energy-limited or unbounded? A test in fossil and modern bivalves. *American Naturalist*. *Revisions submitted August 2016.*

PEER-REVIEWED JOURNAL ARTICLES

Payne, J.L., A.M. Bush, **N.A. Heim**, M.L. Knope, and D.J. McCauley. 2016. Ecological selectivity of the emerging mass extinction in the oceans. *Science*, 353(6305):1284-1286. *URL: <http://science.sciencemag.org/content/early/2016/09/13/science.aaf2416>.*

Payne, J.L., A.M. Bush, E. Chang, **N.A. Heim**, M.L. Knope, and S.B. Pruss. 2016. Extinction intensity, selectivity, and their combined macroevolutionary influence in the fossil record. *Biology Letters*, 12(10): 20160202. *DOI: 10.1098/rsbl.2016.0202.*

Smith, F.A., J.L. Payne, **N.A. Heim**, M. Balk, S. Finnegan, M. Kowalewski, S.K. Lyons, C.R. McClain, D.W. McShea, P.M. Novack-Gottshall, P.S. Anich and S.C. Wang. 2016. Body size evolution across the Geozoic. *Annual Review of Earth and Planetary Sciences*, 44:523-553. *URL: <http://www.annualreviews.org/doi/abs/10.1146/annurev-earth-060115-012147>.*

Heim, N.A., M.L. Knope, E.K. Schaal, S.C. Wang and J.L. Payne. 2015. Cope's Rule in the Evolution of Marine Animals. *Science*, 347(6224):867-870. *DOI: 10.1126/science.1260065.*

Knope, M.L., **N.A. Heim**, L.O. Frishkoff and J.L. Payne. 2015. Limited role of functional differentiation in early diversification of animals. *Nature Communications*, 6:6455. *DOI: 10.1038/ncomms7455.*

Payne, J.L., **N.A. Heim**, M.L. Knope and C.R. McClain. 2014. Metabolic dominance of bivalves predates brachiopod diversity decline by more than 150 million years. *Proceedings of the Royal Society B*, 281(1783):20133122. *DOI: 10.1098/rspb.2013.3122.*

Rook, D.L., **N.A. Heim** and J. Marcot. 2013. Contrasting patterns and connections of rock and biotic diversity in the marine and terrestrial fossil records of North America. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 372: 123-129. *DOI: 10.1016/j.palaeo.2012.10.006.*

Finnegan, S., **N.A. Heim**, S.E. Peters and W.W. Fischer. 2012. Climate Change and the Selective Signature of the Late Ordovician Mass Extinction. *Proceedings of the National Academy of Sciences of the U.S.A.* (PNAS), 109(18): 6829-6834. *DOI: 10.1073/pnas.1117039109.*

Heim, N.A. and S.E. Peters. 2011. Local Environmental Breadth Determines Geographic Range and Longevity in Fossil Marine Genera. *PLoS One*, 5(6): e18946. *DOI: 10.1371/journal.pone.0018946.*

Heim, N.A. and S.E. Peters. 2011. Covariation in macrostratigraphic and macroevolutionary patterns in the marine record of North America. *The Geological Society of America Bulletin*, 123: 620-630. *DOI: 10.1130/B30215.1.*

Peters, S.E. and **N.A. Heim**. 2011. Stratigraphic distribution of marine fossils in North America. *Geology*, 39: 259-262. *DOI: 10.1130/G31442.1.*

- Peters, S.E. and **N.A. Heim**. 2010. The geological completeness of paleontological sampling in North America. *Paleobiology*, 36: 61-79. DOI: 10.1666/0094-8373-36.1.61.
- Peng, S., N.C. Hughes, **N.A. Heim**, B.K. Sell, X. Zhu, P.M. Myrow, and S.K. Parcha. 2009. Cambrian trilobites from the Parahio and Zanskar Valleys, Indian Himalaya. *Journal of Paleontology*, 83(sp. 71): 1-95. DOI: 10.1666/08-129.1.
- Heim, N.A.** 2009. Stability of regional brachiopod diversity structure across the Mississippian/Pennsylvanian boundary. *Paleobiology*, 35: 393-412. DOI: 10.1666/0094-8373-35.3.393.
- Heim, N.A.** 2008. A null biogeographic model for quantifying the role of migration in shaping patterns of global taxonomic richness and differentiation diversity, with implications for Ordovician biogeography. *Paleobiology*, 34: 195-209. DOI: 10.1666/0094-8373(2008)034[0195:ANBMFQ]2.0.CO;2.
- Myrow, P.M., K.E. Snell., N.C. Hughes, T.S. Paulsen, **N.A. Heim**, and S.K. Parcha. 2006. Cambrian depositional history of the Zanskar Valley region of the Indian Himalaya: tectonic implications. *Journal of Sedimentary Research*, 76: 364-381. DOI: 10.2110/jsr.2006.020.

PEER-REVIEWED BOOK CHAPTERS

- Railsback, L.B., K.M. Layou, **N.A. Heim**, S.M. Holland, M.L. Trogdon, M.B. Jarrett, G.M. Izsak, D.E. Bulger, E.J. Wysong, K.J. Trubee, J.M. Fiser, J.E. Cox, and D.E. Crowe. 2012. Geochemical evidence for meteoric diagenesis and cryptic surfaces of subaerial exposure in peritidal carbonates of Late Ordovician age from the Nashville Dome, central Tennessee, USA In Morad, S., M. Ketzer and L.F. de Ros (eds) *Linking Diagenesis to Sequence Stratigraphy*. International Association of Sedimentologists Special Publication no. 45, p. 257-270. DOI: 10.1002/9781118485347.ch11
- Peters, S.E. and **N.A. Heim**. 2011. Macrostratigraphy and macroevolution in marine environments: testing the common-cause hypothesis. In McGowan, A. and A.B. Smith (eds.), *Comparing the Geological and Fossil Records: Implications for Biodiversity Studies*. Geological Society Special Publication 358, p. 95-104. DOI: 10.1144/SP358.7.

FIELD GUIDES & OTHER PUBLICATIONS

- Heim, N.A.** and D.H. Geary. 2013. The Fossil Record. In Losos, J. (editor in chief). *The Princeton Guide to Evolution*. Princeton University Press, Princeton, N.J., p. 112-119.
- Heim, N.A.** 2013. Extinction Rates and the Fossil Record. In MacLeod, N. (editor in chief). *Grzimek's Animal Life Encyclopedia, Extinction*. Cengage Learning, Detroit, p. 103-109.
- Hughes, N.C. and **N.A. Heim**. 2005. Paleozoic: Cambrian. In Selley, R.C., Cocks, L.R.M. and Plimer, I.R. (eds.), *Encyclopedia of Geology*. Elsevier, Amsterdam, p. 163-175.
- Jensen, S., M.L. Droser, and **N.A. Heim**. 2002. Trace fossil and ichnofabrics of the Lower Cambrian Wood Canyon Formation, southwest Death Valley area. In Corsetti, F.A. (ed.), *Proterozoic-Cambrian of the Great Basin and Beyond*, Pacific Section SEPM Book 93, p. 123-135.

ABSTRACTS

- Payne, J.L., A.M. Bush, E.T. Chang, **N.A. Heim**, M.L. Knope and S.B. Pruss. 2016. *AGU Fall Meeting*. Seeking a paleontological signature for mass extinctions caused by flood basalt eruptions. V43F-01.
- Heim, N.A.**, J. Saltzman and J.L. Payne. 2016. *GSA Annual Meeting*. Using an authentic summer research experience to improve science literacy and earth science awareness. *GSA Abstracts with Programs*, 48(7).
- Strotz, L.C., E.E. Saupe, A.Y. Hsiang, L.E. Elder, **N.A. Heim**, H.J. Dowsett and P.M. Hull. 2016. *GSA Annual Meeting*. Geographic variations in body size for the northern Atlantic pelagic biome. *GSA Abstracts with Programs*, 48(7).
- Payne, J.L., A.M. Bush, E.T. Chang, **N.A. Heim**, M.L. Knope and S.B. Pruss. 2016. *GSA Annual Meeting*. Extinction intensity, selectivity, and their combined macroevolutionary influence in the fossil record. *GSA Abstracts with Programs*, 48(7).
- N.A. Heim**. 2016. *Bay Area Conservation Biology Symposium*. The ecological signature of the ‘Sixth Extinction’ and oceanographic implications for the selective loss of large pelagic fish.
- N.A. Heim**, J.L. Payne, M. Balk, S. Finnegan, M. Kowalewski, S.K. Lyons, C.R. McClain, D.W. McShea, P.M. Novack-Gottshall, P.S. Anich, F.A. Smith and S.C. Wang. 2015. *GSA Annual Meeting*. Hierarchical complexity and the limits of organism size. *GSA Abstracts with Programs*, 47(7): 670.
- Orzechowski, E.A., **N.A. Heim**, M.L. Knope, J.L. Payne and S. Finnegan. 2015. *GSA Annual Meeting*. Testing the law of constant extinction within marine adaptive zones. *GSA Abstracts with Programs*, 47(7):232.
- Lyons, S.K., **N.A. Heim**, F.A. Smith, M. Balk, S. Finnegan, M. Kowalewski, C.R. McClain, D.W. McShea, P.M. Novack-Gottshall, J.L. Payne, P.S. Anich and S.C. Wang. 2015. *GSA Annual Meeting*. Body-size evolution and ecological replacement in terrestrial vertebrates. *GSA Abstracts with Programs*, 47(7):670.
- Payne, J.L., **N.A. Heim**, M.L. Knope, A.M. Bush and D.J. McCauley. 2015. *GSA Annual Meeting*. Comparative intensity and selectivity of the emerging sixth extinction in the ocean. *GSA Abstracts with Programs*, 47(7):232.
- Heim, N.A.** 2015. *Annual Meeting of North-Central GSA*. The effects of body size lithological affinity on extinction risk. *GSA Abstracts with Programs*, 47(5).
- Heim, N.A.**, M.L. Knope, E.K. Schaal and J.L. Payne. 2014. *GSA Annual Meeting*. A driven trend toward larger size in the evolution of marine animals. *GSA Abstracts with Programs*, 46(6):631.
- Heim, N.A.**, J. Saltzman and J.L. Payne. 2014. *AGU Fall Meeting*. Improving Science Literacy and Earth Science Awareness Through an Intensive Summer Research Experience in Paleobiology. ED14A-04.
- E.K. Schaal, D.J. Morgan, A.B. Jost, **N.A. Heim** and J.L. Payne. 2014. *GSA Annual Meeting*. Measuring Body size from genus-level compendia captures size evolution trends in component species: Validation using Foraminifera, Ostracoda, and Conodonts. *GSA Abstracts with Programs*, 46(6):643.
- Knope, M.L., **N.A. Heim** and J.L. Payne. 2014. *Annual Meeting of the Ecological Society of America*. 500 million years of increasing body size, ecological complexity, and metabolic activity of marine animals.
- Heim, N.A.**, M.L. Knope, and J.L. Payne. 2014. *Annual Meeting of Southeastern GSA*. Seafood through time revisited: Coupled body size evolution, metabolic activity, and ecological diversification in Phanerozoic bilaterian marine animals. *GSA Abstracts with Programs*, 46(3):71.

- Heim, N.A.**, M.L. Knope, and J.L. Payne. 2014. *10th North American Paleontological Convention*. The macroevolutionary transition in ostracods from macrofauna to microfauna. *Paleontological Society Special Publication*, 13: 51.
- Knope, M.L., **N.A. Heim** and J.L. Payne. 2014. *21st Century Naturalists: Integrating Pattern and Process to Understand Biodiversity* (American Society of Naturalists). Ecological diversification is coupled to body size evolution across bilaterian marine animals.
- J. Saltzman, **N.A. Heim** and J.L. Payne. 2013. *AGU Fall Meeting*. Engaging high school youth in paleobiology research. ED13E-0806.
- Heim, N.A.**, J.L. Payne and M.L. Knope. 2013. *GSA Annual Meeting*. Phanerozoic evolution of body size in bilaterian marine animals. *GSA Abstracts with Programs*, 45(7):92.
- Heim, N.A.**, S.E. Peters, J. Saltzman, J.L. Payne. 2013. *GSA Annual Meeting*. The role of paleogeographic data services in improving paleobiological education and research. *GSA Abstracts with Programs*, 45(7):235.
- Payne, J.L., **N.A. Heim**, M.L. Knope and C.R. McClain. 2013. *GSA Annual Meeting*. Metabolic rise of bivalves independent of brachiopod diversity decline. *GSA Abstracts with Programs*, 45(7):93.
- Payne, J.L., **N.A. Heim**, M.L. Knope, K. Meyer, C.R. McClain. 2013. *Goldschmidt*. Increasing Metabolic Activity of Clams and Brachiopods over the Past 500 Million Years: A Consequence of the Changing Biological Pump? *Mineralogical Magazine*, 77(5):1939.
- Heim, N.A.** and S.E. Peters. 2012. *GSA Annual Meeting*. There is no Phanerozoic rock record bias. *GSA Abstracts with Programs*, 44(7):33.
- Peters, S.E. and **N.A. Heim**. 2012. *GSA Annual Meeting*. Stratigraphic cyclicity at the scale of continents and basins. *GSA Abstracts with Programs*, 44(7):631.
- Heim, N.A.**, P. Kishor, M. McClellan and S.E. Peters. 2012. *AGU Fall Meeting*. Earth-Base: testing the temporal congruency of paleontological collections and geologic maps of North America. Abstract IN12A-02.
- Heim, N.A.** and S.E. Peters. 2012. *The Geological Society [London] William Smith Meeting*. The production and degradation signals of stratigraphic preservation in North America, with implications for paleobiology.
- Heim, N.A.**, D.L. Rook and S.E. Peters. 2011. *GSA Annual Meeting*. Macrostratigraphy and the non-marine fossil record of North America. *GSA Abstracts with Programs*, 43(5):50
- Finnegan, S., S.E. Peters, **N.A. Heim** and W.W. Fischer. 2011. *GSA Annual Meeting*. Macrostratigraphic and macroecological correlates of extinction risk during the Late Ordovician Mass Extinction. *GSA Abstracts with Programs*, 43(5):51.
- Rook, D.L., **N.A. Heim**, J. Marcot and S.E. Peters. 2011. *Society of Vertebrate Paleontology Annual Meeting*. Contrasting patterns of rock and biotic diversity in the marine and terrestrial fossil records of North America.
- Heim, N.A.** and S.E. Peters. 2010. *GSA Annual Meeting*. Global distribution predicts regional geographic range and longevity in marine genera of North America. *GSA Abstracts with Programs*, 42(5): 138.
- Rook, D.L., **N.A. Heim**, and S.E. Peters. 2010. *Society of Vertebrate Paleontology Annual Meeting*. What are we missing?: Geological completeness of paleontological sampling in the terrestrial Cenozoic of North America.

Peters, S.E. and **N.A. Heim**. 2009. *GSA Annual Meeting*. The stratigraphic distribution of fossils within gap-bound sedimentary rock packages. *GSA Abstracts with Programs*, 41(7): 507.

Heim, N.A. and S.E. Peters. 2009. *9th North American Paleontological Convention*. Macrostratigraphy and the North American fossil record: The stratigraphic distribution of fossils within gap-bound sediment packages. *Cincinnati Museum Center Scientific Contributions*, 3: 195-196.

Peters, S.E. and **N.A. Heim**. 2009. *9th North American Paleontological Convention*. The geological completeness of paleontological sampling in North America. *Cincinnati Museum Center Scientific Contributions*, 3: 196-197.

Peters, S.E. and **N.A. Heim**. 2009. *Annual Meeting of North-Central GSA*. Macrostratigraphy and the North American Fossil Record: Rocks and Fossils in Time and Space. *GSA Abstracts with Programs*, 41(4): 69.

Heim, N.A. 2008. *GSA Annual Meeting*. Stability of regional brachiopod diversity structure across the Mississippian/Pennsylvanian Boundary. *GSA Abstracts with Programs*, 40(6): 403.

Heim, N.A. 2007. *GSA Annual Meeting*. Delta diversity, migration and global warming during the Late Ordovician. *GSA Abstracts with Programs*, 39(6): 91.

Heim, N.A. 2006. *GSA Annual Meeting*. Hierarchical sampling and additive diversity partitioning across multiple spatial and temporal scales: an example with upper Mississippian (Chesterian) brachiopods from the southern Ozark Uplift, North America. *GSA Abstracts with Programs*, 38(7): 86.

Heim, N.A. 2006. *EPA STAR Fellows Conference*. Effects of global climate change on migration and biodiversity at multiple spatial scales: A deep-time perspective from the fossil record of Carboniferous age brachiopods.

Heim, N.A. and S.M. Holland. 2005. *8th North American Paleontological Convention*. A null biogeographic model for quantifying the role of migration in shaping taxonomic richness and similarity patterns. *PaleoBios*, 25(supp. to no. 2): 59.

Heim, N.A. and S.M. Holland. 2004. *Palaeontological Association Annual Meeting*. A null biogeographic model for quantifying the role of dispersal in shaping taxonomic richness and similarity patterns. *Palaeontological Association Newsletter*, 57: 122.

Heim, N.A., K.M. Layou, L.B. Railsback, S.M. Holland, J.E. Cox, and D.E. Crowe. 2004. *GSA Annual Meeting*. Geochemical evidence of subaerial exposure at parasequence boundaries in Upper Ordovician limestones from the Nashville Dome, Tennessee, U.S.A. *GSA Abstracts with Programs*, 36(5): 76.

Myrow, P.M., N.C. Hughes, K.E. Snell, **N.A. Heim**, B.K. Sell, and S.K. Parcha. 2004. *GSA Annual Meeting*. Stratigraphic constraints upon the nature and timing of the Himalayan Cambrian-Ordovician event. *GSA Abstracts with Programs*, 36(5): 1185.

Sell, B.K., N.C. Hughes, **N.A. Heim**, and P.M. Myrow. 2003. *GSA Annual Meeting*. Cambrian trilobites and stratigraphic correlations within Tethyan Himalaya. *GSA Abstracts with Programs*, 35(6): 174.

Heim, N.A. and N.C. Hughes. 2003. *California Paleontology Conference*. Intraspecific variation in trilobites from the Tethyan Himalaya and the Cambrian biogeography of equatorial peri-Gondwanaland. *PaleoBios*, 23(supp. to no. 1): 3.

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