# STEVEN M. HOLLAND PROFESSOR

#### **A**DDRESS

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#### **EDUCATION**

1985–1990	Doctor of Philosophy, University of Chicago, Chicago, Illinois. Dissertation: Distinguishing eustasy and tectonics in foreland basin stratigraphy: The Upper Ordovician of the Cincinnati Arch and Appalachian Basin, 390 p.
1981–1985	Bachelor of Science, Summa cum Laude with High Honors in Geology, University of Cincinnati, Cincinnati, Ohio. Undergraduate Thesis: Taphonomy of <i>Platystrophia ponderosa</i> from the Cincinnatian of Southwest Ohio: General implications for brachiopod taphonomy

#### PROFESSIONAL EXPERIENCE

2001-present	Professor, Department of Geology and Department of Marine Sciences, University of Georgia. Graduate Faculty, Honors Faculty
1996–2001	Associate Professor, Department of Geology and Department of Marine Sciences, University of Georgia. Graduate Faculty, Honors Faculty
1993–1996	Assistant Professor, Department of Geology and Department of Marine Sciences, University of Georgia. Graduate Faculty, Honors Faculty (1995–present)
1991–1993	Assistant Professor, Department of Geology, University of Georgia. Graduate Faculty (1992–present)
1990–1991	Battelle Post-Doctoral Fellow, Department of Geology and Mineralogy, Ohio State University
1988	Teaching Assistant for David Jablonski, Biological Evolution
1987	Research Assistant for Susan Kidwell, computer modeling of sedimentary cyclicity
1984	Archaeological Assistant to Wes Cowan, Cincinnati Museum of Natural History, Ohio
1983	Technical Advisor, Exhibits Department, Cincinnati Museum of Natural History, Ohio
1981-1985	Volunteer Curator of Paleontology, Cincinnati Museum of Natural History, Ohio

# **ADDITIONAL EDUCATION**

1989	Geological Society of America Short Course: Geological Applications of Hypercard
1989	AAPG School:Well Log Analysis
1988	School of Oceanography, University of Washington, Seattle, Washington. Visiting Graduate Student. Directed readings in sediment transport and coastal oceanography
1987	Geological Society of America Short Course: Quantitative Sedimentary Basin Modeling
1987	Geological Society of America Short Course: Current Aspects of Basin Analysis and Sedimentary Geology
1986	Friday Harbor Laboratories, University of Washington, Friday Harbor, Washington. Course: Dynamics at the sediment-water interface
1984	Miami University, Oxford, Ohio. Field Camp in Wind River Basin, Wyoming. 4 week mapping and sedimentary geology course

# PROFESSIONAL SOCIETIES

Geological Society of America Paleontological Society Society for Sedimentary Geology (SEPM)

#### **AWARDS & HONORS**

2017	Professor of the Year, Department of Geology, University of Georgia
2015	Best paper in Palaeontology for 2015
2014	Professor of the Year, Department of Geology, University of Georgia
2013	Teacher of the Year, Department of Geology, University of Georgia
2012	Top Referees, Proceedings of the Royal Society B: Biological Sciences
2012	Professor of the Year, Department of Geology, University of Georgia
2012	Teacher of the Year, Department of Geology, University of Georgia
2008	Teacher of the Year, Department of Geology, University of Georgia
2006	Centennial Fellow, Paleontological Society
2003	Charles Schuchert Award, Paleontological Society
2003	Professor of the Year, Department of Geology, University of Georgia
2002	Honorable Mention, Best Paper, Palaios. SEPM (Society for Sedimentary Geology)
2000	Honorable Mention, Best Paper, Palaios. SEPM (Society for Sedimentary Geology)
2000–2002	Distinguished Lecturer, Paleontological Society

2000	James Lee Wilson Award for Excellence in Sedimentary Geology by a Young Scientist. SEPM (Society for Sedimentary Geology)
2000	Excellence in Poster Presentation, SEPM (Society for Sedimentary Geology)
1998	Teacher of the Year, Department of Geology, University of Georgia
1997	Teacher of the Year, Department of Geology, University of Georgia
1997	Outstanding Honors Professor, Honors Program, University of Georgia
1996	Teacher of the Year, Department of Geology, University of Georgia
1994	Teacher of the Year, Department of Geology, University of Georgia
1992	Teacher of the Year, Department of Geology, University of Georgia
1990–1991	Battelle Postdoctoral Fellowship, Ohio State University
1985–1989	Century Fellowship, Division of Physical Sciences, The University of Chicago
1985–1988	National Science Foundation Graduate Fellowship
1985	Phi Beta Kappa
1984	National Association of Geology Teachers Field School Scholarship
1981–1985	Vorheis full tuition scholarship, University of Cincinnati; Walter & Kathryn Cook Scholarship, Department of Geology, University of Cincinnati; Ohio Board of Regents Scholarship

# INVITED PRESENTATIONS

2018	Department of Geosciences, Penn State University
2017	Department of Earth and Planetary Sciences, Northwestern University
2017	Ermine Cowles Case Memorial Lecture, Museum of Paleontology, University of Michigan
2016	Department of Earth Sciences, University of Southern California
2015	Royal Society discussion meeting on "Dating species divergences using rocks and clocks".
2015	Department of Geological Sciences, University of Florida
2013	Department of Geology, Macalester College
2012	Weeks Lecture, Department of Geoscience, University of Wisconsin
2012	Georgia Climate and Society Initiative, University of Georgia
2012	David Meyer retirement celebration, Department of Geology, University of Cincinnati
2012	Department of Geology, University of Cincinnati
2012	Willson Center for Humanities and Arts, University of Georgia

2010	ConocoPhillips School of Geology and Geophysics, University of Oklahoma
2010	Department of Geophysical Sciences, University of Chicago
2009	Department of Marine Sciences, University of Georgia
2009	Department of Geology, College of William & Mary
2008	5-day short course on sequence stratigraphy and the fossil record, Nanjing Institute of Geology and Paleontology
2008	9th Annual Ecological Integration Symposium, Texas A&M University
2005	Department of Earth and Planetary Sciences, University of Tennessee
2005	Distinguished Lecturer, Department of Geosciences, Virginia Tech
2005	Department of Earth and Planetary Sciences, Harvard University
2004	Department of Paleobiology, Smithsonian National Museum of Natural History
2003	Department of Geoscience, University of Iowa
2002	Department of Geology, University of Cincinnati
2001	Department of Geophysical Sciences, University of Chicago
2000	Department of Geology, Western Michigan University
2000	Department of Geology, University of Kansas
2000	Department of Geology, University of Alabama
1999	Department of Geology, University of Michigan
1998	SEPM Carbonate Research Group, Annual Meeting of SEPM / AAPG, Salt Lake City, Utah
1998	Earth History and Paleobiology Seminar Series, Harvard University
1997	Department of Geology, University of Cincinnati
1996	Symposium on "Dimensional scaling and the stratigraphic record of episodic and periodic forcing", Annual Meeting of Geological Society of America, Denver, Colorado
1996	Department of Earth and Space Sciences, University of California at Los Angeles
1996	Fossil Fest Conference, Cincinnati Museum of Natural History
1995	Department of Geophysical Sciences, University of Chicago
1995	School of Oceanography, University of Washington
1994	Earth History and Paleobiology Seminar Series, Harvard University
1993	Geology Department, Virginia Polytechnic Institute and State University
1993	Symposium on "Paleobiologic Approaches to Global Change", SEPM Meeting "Stratigraphic Record of Global Change", State College, Pennsylvania

1993	Symposium on "Analyzing significant biotic trends through stratigraphic data", Rocky Mountain and Cordilleran Section Meeting of the Geological Society of America, Reno, Nevada
1990	Geology Department, University of Georgia
1990	Department of Earth and Planetary Sciences, Washington University
1990	Geology Department, University of Cincinnati
1989	Amoco Production Company
1989	ARCO Oil and Gas Company
1989	Geology Department, Kansas State University
1989	Symposium on "Paleontological Event Horizons", Northeastern Section of the Geological Society of America, Piscataway, New Jersey

#### TEACHING EXPERIENCE

### Quantitative Biostratigraphy

Half-day short course, taught at Microfossils IV meeting in Houston, Texas. April, 2017.

#### Stratigraphic Paleobiology

One-day short course, taught at 4<sup>th</sup> International Paleontological Convention in Mendoza, Argentina. October, 2014.

### Field Course in Stratigraphic Paleobiology

Two-week field course for graduate students, sponsored by the Paleontological Society, and located in the Tobacco Root Mountains and Missouri Breaks of Montana. Co-taught with Mark Patzkowsky. Summer 2014, Summer 2017.

# GEOL 4010: Life, Environments & Ecologies of the Past (co-taught) Fall 1998 (22 students), Fall 1999 (7 students), Fall 2000 (16 students), Fall 2001 (11 students)

# GEOL 4050/6050: Facies Models and Stratigraphy Fall 1998 (5 students), Fall 1999 (6 students), Spring 2001 (4 students), Spring 2002 (9 students)

# GEOL 4270/6270: Geology Field School

Summer 2006 (15 students, taught one week in Utah), Summer 2007 (19 students, taught one week in Colorado), Summer 2009 (20 students, taught 1/2 week)

# GEOL 4370/6370: Data Analysis in the Geosciences

Fall 1998 (14 students), Fall 2000 (6 students), Fall 2002 (14 students), Fall 2004 (7 students), Fall 2007 (8 students), Fall 2009 (17 students), Fall 2011 (21 students), Fall 2013 (25 students), Fall 2015 (23 students), Fall 2019 (25 students)

GEOL 4500/6500: Sedimentary Geology

Spring 2003 (9 students), Spring 2004 (11 students), Spring 2005 (7 students), Spring 2006 (9 students), Spring 2007 (12 students), Spring 2008 (13 students), Spring 2009 (16 students), Spring 2010 (13 students), Spring 2011 (24 students), spring 2012 (29 students), spring 2013 (33 students), spring 2014 (33 students), spring 2015 (28 students), spring 2016 (27 students), spring 2017 (21 students), spring 2018 (17 students), spring 2019 (21 students)

GEOL 8060: Advanced Topics in Paleobiology

Fall 2001: Ordovician paleoceanography (2 students)

Fall 2003: Null models in paleobiology (2 students)

Spring 2004: Programming in C (2 students)

Spring 2006: Introduction to R (5 students)

GEOL 8080: Advanced Topics in Sedimentary Geology

Fall 2001: Sedimentology of Sapelo (8 students)

GEOL 8140: Sequence Stratigraphy

Fall 1999 (2 students), Fall 2001 (5 students), Fall 2003 (3 students), Fall 2005 (7 students), Fall 2008 (7 students), Fall 2010 (4 students), Fall 2012 (8 students), Fall 2014 (3 students), Fall 2016 (12 students), Fall 2018 (6 students)

GEOL 8370: Data Analysis in the Geosciences Fall 2017 (25 students)

HONS 1990H: Darwinism and Christianity Spring 2002 (13 students)

GEOL 1122H: Earth's History of Global Change Spring 2003 (22 students)

SCI 208H: Honors Science (co-taught)

Winter 1998 (17 students); Winter 1997 (40 students); Winter 1996 (29 students); Winter 1995 (29 students); Winter 1994 (31 students); Winter 1993 (24 students)

SCI 209H: Honors Science (co-taught)

Spring 1998 (11 students); Spring 1997 (35 students); Spring 1996 (26 students); Spring 1995 (25 students); Spring 1994 (28 students); Spring 1993 (21 students)

GLY 235H: Honors Field Geology Program (co-taught)

Summer 1992 (24 students)

GLY 126: Historical Geology

Spring 1991 (29 students); Fall 1991 (13 students)

GLY 405/605: Sedimentation and Stratigraphy

Winter 1998 (15 students); Winter 1997 (22 students); Winter 1996 (17 students); Winter 1995 (21 students); Winter 1994 (21 students); Winter 1993 (17 students); Winter 1992 (8 students)

GLY 427/627: Geology Field School, Cañon City, Colorado (co-taught)

Summer 1997 (22 students); Summer 1995 (18 students); Summer 1994 (15 students); Summer 1993 (23 students)

GLY 437/637: Geostatistics

Fall 1996 (8 students); Fall 1994 (11 students)

GLY 802K: Advanced Topics in Stratigraphy Fall 1993 (5 students)

GLY 805: Advanced Stratigraphy

Fall 1997 (5 students); Fall 1995 (5 students); Fall 1992 (6 students)

GLY 825: Plate Tectonics (co-taught)

Fall 1997 (6 students); Fall 1996 (8 students); Fall 1995 (4 students); Fall 1994 (5 students); Fall 1993 (7 students); Fall 1992 (4 students); Fall 1991 (8 students)

#### POST-DOCTORAL FELLOWS

Sylvia Danise (2015–2016). Supported by a Marie Curie Fellowship from The European Commission.

#### **GRADUATE STUDENTS**

Max Deckman, M.S. expected Spring 2021.

Samantha Khatri, M.S. expected Spring 2021.

Anik Regan, M.S. expected Spring 2021.

Sydney Lee, M.S. expected Spring 2020.

Garett Brown, Ph.D. expected Spring 2020. Research supported by a Vitaliano Grant from the Indiana University Geology Field Station, Geological Society of America, and Tobacco Root Geological Society.

Pedro Monarrez, Ph.D. Spring 2019. Research supported by the Paleontological Society.

Matt Hess, M.S. Summer 2019. Research supported by the Geological Society of America.

Sierra Swenson, M.S. Summer 2019. Research supported by Tobacco Root Geological Society.

Sarah Wright, M.S. December 2017. Thesis: The falling-stage progradation of an open-coast tidal flat: UAV-assisted sequence stratigraphy of the Jurassic Windy Hill Sandstone, Wyoming. Research supported by the Geological Society of America, American Association of Petroleum Geologists, Wyoming Geological Association, and Tobacco Root Geological Society

Bolton Howes, M.S. August 2017. Thesis: Sequence Stratigraphic Expression of Flexural Subsidence: Middle Jurassic Twin Creek Limestone, Wyoming, U.S.A. Research supported by the Geological Society of America.

Annaka Clement, M.S. May 2015. Thesis: The sequence stratigraphy of the Middle Jurassic Gypsum Spring and Piper Formations in the eastern Bighorn Basin of Wyoming, U.S.A. Research supported by the Geological Society of America and the Society for Sedimentary Geology (SEPM).

Kristopher Kusnerik, M.S. May 2015. Thesis: Community paleoecology and biogeography of the Jurassic (Bajocian–Oxfordian) Sundance Seaway in the Bighorn Basin of Wyoming and Montana, U.S.A. Research supported by the Geological Society of America and the Theodore Roosevelt Memorial Fund of the American Museum of Natural History.

- Chelsea Jenkins, M.S. May 2014. Thesis: Are biogeographic provinces discrete or gradational: a test in the Late Ordovician of Laurentia. Research supported by the Geological Society of America.
- Christopher Ginn, M.S. May 2014. Thesis: Sequence stratigraphy of the Silurian Clinch Formation, northeastern Tennessee and southwestern Virginia.
- Judi Sclafani, M.S. May 2013. Thesis: Testing the species-area relationship through Hubbell's theta in Late Ordovician marine communities of Laurentia. Research supported by the Geological Society of America, the Paleontological Society, the Theodore Roosevelt Memorial Fund of the American Museum of Natural History, and the Sigma Xi Grants-in-Aid of Research.
- Ally Platsky, M.S. August 2013. Thesis: The effect of eustatic period on changes in Hubbell's theta. Research supported by the Geological Society of America and the Theodore Roosevelt Memorial Fund of the American Museum of Natural History.
- Sharon McMullen, M.S. May 2012. Thesis: The occurrence of vertebrate and invertebrate fossils in a sequence stratigraphic context: The Jurassic Sundance Formation, Bighorn Basin, Wyoming, USA. Research supported by the Geological Society of America and the Paleontological Society.
- Max Christie, M.S. August 2011. Thesis: Contrasting the ecological and taxonomic intensity of extinction. Research supported by the Geological Society of America, the Paleontological Society, and the Theodore Roosevelt Memorial Fund of the American Museum of Natural History.
- Andrew Zaffos, M.S. August 2010. Thesis: Abundance and extinction at the Ordovician/Silurian boundary of the Cincinnati Arch, USA. Research supported by the Geological Society of America, the Paleontological Society, and the Theodore Roosevelt Memorial Fund of the American Museum of Natural History.
- Noel Heim, Ph.D. August 2008. Dissertation: The spatial structure of biodiversity in the fossil record: contrasting global, continental, and regional responses to climate change. Research supported by a STAR Fellowship from the U.S. Environmental Protection Agency, the Geological Society of America, and the Paleontological Society.
- Karen Layou, Ph.D. June 2007. Dissertation: Paleocommunity response to extinction: an example from the Late Ordovician (Mohawkian) of the Appalachian Basin of the eastern United States. Research supported by the Geological Society of America, the Paleontological Society, the Theodore Roosevelt Memorial Fund of the American Museum of Natural History, and the Sigma Xi Grants-in-Aid of Research.
- Jessica Allen, M.S. August 2003. Thesis: Facies and sequence stratigraphic analysis of the Harding Sandstone, Colorado. Research supported by the Geological Society of America, and the Colorado Scientific Society.
- Gayle Levy, M.S. June 2002. Thesis: Landmark analysis of the brachiopod *Sowerbyella rugosa*: a test of stasis. Research supported by the Paleontological Society, the Southeastern Section of the Geological Society of America, and the Sigma Xi Grants-in-Aid of Research.
- Daniel Hunter, M.S. May 2000. Thesis: Petrographic and geochemical evidence of subaerial exposure at temperate carbonate sequence boundaries, Upper Ordovician, Nashville Dome, Tennessee.
- Andrew Benson, M.S. March 1998. Thesis: Cause and regional extent of the mid-Ordovician positive  $\delta^{13}$ C isotope excursion.
- Joshua Sternberg, M.S. June 1997. Thesis: Testing a Middle Ordovician sequence boundary for chronostratigraphic significance. Research supported by Geological Society of America.

- Alan Peoples, M.S. March 1997. Thesis: Application of the parasequence model to the Cretaceous Dakota Group in Cañon City, Colorado.
- John Jordan, M.S. March 1997. Thesis: Sequence stratigraphy of a carbonate-siliciclastic transition in the Upper Mississippian and Lower Pennsylvanian of the southern Appalachians. Research supported by Sigma Xi Grants-in-Aid of Research and the American Association of Petroleum Geologists.
- Polly Bouker, M.S. June 1996. Thesis: Using multivariate statistics to quantify tempestite proximality: Silurian Red Mountain Formation, Ringgold Gap, Georgia. Research supported by Sigma Xi Grants-in-Aid of Research.

#### **UNDERGRADUATE THESES**

- Sydney Shat, May 2020. Tectonic provenance and source areas of the Jurassic Fernie Formation, southern Alberta.
- Michael (Skip) Sleister, May 2019. Tectonic provenance of the Jurassic Preuss and Stump Formations, Wyoming and Idaho.
- Jack Simmons, May 2017. Tectonic provenance and source areas of Jurassic sandstones, Wyoming. Austin Poncelet, May 2016. Paleoclimate indicators in Jurassic limestone, Wyoming.
- Sydne Workman, May 2015: Well log correlations of the marine Jurassic, Bighorn Mountains to Black Hills.
- Jason Burwell, May 2015: Well log correlations of the marine Jurassic, Bighorn Mountains to Idaho.
- Daniel Graybeal, May 2014: Jurassic paleogeography of western North America
- Rachel Cheatham, December 2012: Mississippian paleocommunities of Center Hill Lake, Tennessee
- Sean Cameron, May 2012: Sequence architecture and well-log analysis, Sundance Formation, Bighorn Basin, Wyoming
- Jordan Carney, May 2012: Bryozoan associations along the C5 onshore-offshore gradient, Cincinnati Arch, USA
- Leanne Hancock, May 2012: Bryozoan associations along the C5 onshore-offshore gradient, Cincinnati Arch, USA
- Morgan Rosenberg, May 2011: Bryozoans of the Bighorn Dolomite, Wyoming
- Jonathan Primm, May 2011: Bryozoan distribution along an onshore-offshore gradient, Cincinnatian Series, Southern Indiana
- Kirk Fraley, May 2010. Depositional environments of cliff-forming Carboniferous sandstones in northwest Georgia
- Joshua Miller, May 2010. Well-log correlations in the Ordovician Bighorn Dolomite in Wyoming and portions of surrounding states
- David DuBose, May 2009. Well-log correlations and interpretations in the Sundance Formation, Bighorn Basin, Wyoming
- Eric Hogan, May 2008. Clay mineralogy of Pennsylvanian deltaic shales from the Breathitt Group, Flat Lick, Kentucky, USA
- Kathryn Hoffmeister, May 2008. Using paleoecology to interpret a deltaic sequence of the Breathitt Group at Flat Lick, eastern Kentucky, USA

Tori Hanson, June 2003. Testing changes in preferred habitat within marine genera of the North American Ordovician

# SERVICE

2019-present	Faculty Senate, Franklin College of Arts & Sciences, University of Georgia
2019-present	Faculty mentor for Dr. Mattia Pistone, Department of Geology, University of Georgia
2018-present	Board Member, Earth Life Consortium Foundation
2016–2018	University of Georgia, University-level promotion and tenure review committee
2016–2018	Past-President, Paleontological Society
2014–2016	President, Paleontological Society
2013–2014	Graduate Coordinator; Department of Geology, University of Georgia
2012–2014	President-Elect, Paleontological Society
2012–2016	Faculty mentor for Dr. Adam Milewski, Department of Geology, University of Georgia
2011–2012	Honorary Member Committee, Society for Sedimentary Geology (SEPM)
2010	Interview for WNEG-TV on the explosion of the Deepwater Horizon drilling platform and the subsequent oil spill
2010–2013	Paleontological Society, Student Poster Judge
2007-2011	Paleontological Society Medal Committee
2006-2012	Graduate Coordinator, Department of Geology, University of Georgia
2005-2012	Editor, Alumni Newsletter, Department of Geology, University of Georgia
2005–2011	Paleontological Society Fellows Committee
2005–2007	Councilor for Paleontology. Society for Sedimentary Geology (SEPM)
2005	Session Chair, Partitioning Taxa: Patches, Gradients, and Regions. Annual Meeting of Geological Society of America
2003–2006	Honors Advisory Board, University of Georgia
2003–2005	Franklin College Promotion and Tenure Committee, University of Georgia
2002–2003	Councilor-at-Large (under 40). Paleontological Society
2001–2002	Section representative for Paleontological Society to American Association for the Advancement of Science
2001	Co-organized Paleontological Society topical session on Stratigraphic Paleobiology with Mark Patzkowsky. Annual Meeting of Geological Society of America
1999–2006	Undergraduate Advisor, Department of Geology, University of Georgia

1999	Chair, Riverbend Relocation Committee, Department of Geology, University of Georgia
1998–2013	Associate Editor, Palaios
1998–2009	Computing Committee, Department of Geology, University of Georgia
1998–2002	Moore Medal Selection Committee, SEPM
1998–1999	Technical Program Committee, 1999 Southeastern Sectional Meeting of GSA in Athens, Georgia
1998–1999	Councilor, Southeastern Section SEPM
1998–1999	Admissions and Awards committee, Department of Geology, University of Georgia
1998	Organized symposium on Sequence Stratigraphic Applications to the Appalachians, Southeast GSA meeting, Charleston, West Virginia. Sponsored by the Southeast Section of SEPM and the Southeast Section of the Paleontological Society
1997–1998	President and Councilor-Elect, Southeastern Section SEPM
1996–1997	Vice President, Southeastern Section SEPM
1996–1997	Admissions and Awards committee, Department of Geology, University of Georgia
1995	Chair of the ad hoc Committee for Undergraduate Curriculum Revisions, Department of Geology, University of Georgia
1992-present	Advisory Committees for graduate students
1992-present	Proposal reviewer for National Science Foundation, American Chemical Society Petroleum Research Fund, Research Council of Norway, National Geographic, Natural Sciences and Engineering Research Council of Canada. Manuscript reviewer for Nature, Science, Proceedings of the National Academy of Science, Proceedings of the Royal Society, Ecology Letters, Paleobiology, Palaios, Palaeogeography-Palaeoclimatology-Palaeoecology, Journal of Sedimentary Research, Sedimentology, Sedimentary Geology, Geology, Geological Society of America Bulletin, Journal of Geology, Earth and Planetary Science Letters, Lethaia, Alcheringa, Journal of Foraminiferal Research, SEPM Special Publications, Columbia University Press, Trends in Research in Ecology and Evolution
1992–1995	Graduate Curriculum Committee; Geology Department, University of Georgia
1992–1995	Georgia reporter for the Gulf Coast Section of the Society of Economic Paleontologists and Mineralogists
1992–1993	Search Committee: Paleontology; Geology Department, University of Georgia
1992	Search Committee: Hydrology, Structure, Paleontology; Geology Department, University of Georgia
1992	Computer Liaison Committee, Geology Department, University of Georgia

Grants	
2013	University of Georgia Provost 's Summer Research Grant. Reinterpreting the tempo of an ancient mass extinction using sequence stratigraphy. \$5000
2012	University of Georgia Provost's Summer Research Grant. Enhanced discovery of rare marine vertebrate fossils using sequence stratigraphy \$5000
2010–2014	National Science Foundation: Testing a neutral model for the biotic effects of sealevel change. EAR-0948895. \$147,885
2009–2010	National Geographic Society: The ecological and sedimentary response of an equatorial marine system to Late Ordovician climate change. \$12,300
2008	University of Georgia President's Venture Fund. Funding to participate in the Cocoa Bootcamp, an OS X programming course offered by the Big Nerd Ranch. \$2500, with \$500 matching from the UGA Department of Geology
2002–2005	National Science Foundation: REU Supplement to Diversity partitioning during a marine biotic invasion: Middle and Late Ordovician, Cincinnati Arch and Nashville Dome. EAR-0087055. \$11,500
2001–2005	National Science Foundation: Diversity partitioning during a marine biotic invasion: Middle and Late Ordovician, Cincinnati Arch and Nashville Dome. Collaborative research with Mark E. Patzkowsky of Pennsylvania State University. EAR-0087055. Total award: \$110,000. University of Georgia award: \$55,000
1999–2000	National Science Foundation SGER: Hurricane effects on beach-to-reef facies. Co-Pl with Sally E. Walker, University of Georgia. EAR-0000894. Total award: \$12,366
1997–2001	National Science Foundation: Modeling the biostratigraphic effects of facies control, depositional sequences, and sampling intensity. Collaborative research with Mark E. Patzkowsky of Pennsylvania State University. EAR-9705732. Total award: \$100,000; University of Georgia award: \$35,965
1993–1995	Petroleum Research Fund Class G Grant, American Chemical Society: Sequence stratigraphy of the Middle and Upper Ordovician of the Nashville Dome, Tennessee. 26381-G8. Total award: \$20,000
1992–1994	National Science Foundation: High-resolution event stratigraphy of the Kope-Corryville interval in the type Cincinnatian. Collaborative Research with Arnold I. Miller and David L. Meyer of the University of Cincinnati. EAR-9204445. Total award: \$175,000; University of Georgia award: \$17,800
1985–1988	National Science Foundation Graduate Fellowship
1988	Geological Society of America Research Grant
1988	Sigma Xi Grant-in-Aid of Research
1987	Geological Society of America Research Grant

# **GROUP RESEARCH INITIATIVES**

2013-present	Advisory Board, The Paleobiology Database
2005-2006	Steering Committee, The Paleobiology Database
2003	Participant in workshop, New Directions in Sedimentary Geology, sponsored by National Science Foundation
2001-2004	Advisory Board, The Paleobiology Database
1998–2000	Participant, A Sampling-Standardized Analysis of Phanerozoic Marine Diversification and Extinction, sponsored by National Center for Ecological Analysis and Synthesis
1999	Participant in workshop, Geobiology and the Earth Sciences in the Next Decade, sponsored by National Science Foundation
1998–2005	Associate Member, Penn State Astrobiology Research Center

# PRINCIPAL FIELD EXPERIENCE

TRINCIPAL FIELD LAFERIENCE	
2012-2016	Sequence stratigraphy of the marine Jurassic of the Bighorn Basin in Wyoming. Nine weeks
2011-2015	Paleozoic sequence stratigraphy and stratigraphic paleobiology. Tobacco Root Mountains, Montana. Six weeks
2013	Sequence stratigraphy of the Ordovician/Silurian boundary interval, Nevada. One week
2006–2010	Sequence stratigraphy and paleoecology of the Upper Ordovician of Wyoming. Ten weeks
2000–2004	Sequence stratigraphy and biofacies of the Upper Ordovician of the Cincinnati Arch of Ohio, Indiana, and Kentucky. Nine weeks
2000	Geologic effects of Hurricane Floyd, San Salvador, The Bahamas. Two weeks
1999	Ordovician stratigraphy and paleontology, southern Appalachians and Missouri. Two weeks
1992–1997	Sequence stratigraphy and biofacies of the Upper Ordovician of the Nashville Dome. Four months
1995	Sequence stratigraphy of a lowstand bypass channel in the Mancos Shale; Book Cliffs, Utah. One week
1992–1993	Parasequence stratigraphy and event bed correlation in the Upper Ordovician Kope and Fairview Formations of the Cincinnati, Ohio area. Two months
1987–1989	Sequence stratigraphy and foreland basin evolution of the Middle and Upper Ordovician of the Cincinnati Arch and central Appalachian Basin. 7 months
1989	Holocene shell beds and stratigraphy of the Texas continental shelf. RVV Gyre. 3 weeks

Archeological field survey and excavations in Great Miami River Valley, Southwestern Ohio. 3 months

#### **PUBLICATIONS**

1985

#### Peer-Reviewed Journals and Volumes

- Holland, S.M., 2019. Estimation, not significance. Paleobiology, v. 45, p. 1–6.
- Holland, S.M., 2018. Diversity and tectonics: predictions from neutral theory. Paleobiology, v. 59, p. 219–236.
- Holland, S.M., and S. Danise, 2018. A sequence-stratigraphic appraisal of the lithostratigraphy of the Sundance Formation, Wyoming USA. Wyoming Geological Association Field Conference.
- Danise, S., and S.M. Holland, 2018. A sequence stratigraphic framework for the Middle to Late Jurassic of the Sundance Seaway, Wyoming: implications for correlation, basin evolution, and climate change. Journal of Geology, v. 126, p. 371–405.
- Monarrez, P.M., M. Aberhan, and S.M. Holland, 2017. Regional and environmental variation in escalatory trends during the Jurassic: a western Tethys hot spot for escalation. Paleobiology.
- Danise, S., and S.M. Holland, 2017. Faunal response to sea-level and climate change in a short-lived seaway: Jurassic of the western interior, U.S.A. Palaeontology v. 60, p. 213–232.
- Clement, A.C., and S.M. Holland. 2016. Sequence stratigraphic context of extensive evaporites: Middle Jurassic Gypsum Spring Formation, Wyoming, U.S.A. Journal of Sedimentary Research, v. 86, p. 965–981.
- Patzkowsky, M. E., and S.M. Holland. 2016. Biotic invasion, niche conservatism, and the assembly of regional biotas in deep time: comparison of donor and recipient regions. Paleobiology, v. 58, p. 359–379.
- Jenkins, C.E., and S.M. Holland. 2016. Continental-scale biogeographic variation: provinces versus gradients in the Upper Ordovician of Laurentia. Paleobiology, v. 58, p. 410–425.
- Holland, S.M. 2016. The non-uniformity of the fossil record. Philosophical Transactions of the Royal Society B, Biological Sciences v. 371, no. 20150130. doi: 10.1098/rstb.2015.0130.
- Holland, S.M., and M.E. Patzkowsky. 2015. The stratigraphy of mass extinction. Palaeontology, v. 58, p. 903–924. Awarded best paper in Palaeontology for 2015.
- Holland, S.M., and J. Sclafani. 2015. Phanerozoic diversity and neutral theory. Paleobiology, v. 41, p. 369–376.
- McMullen, S.K., S.M. Holland, and F.R. O'Keefe. 2014. The occurrence of vertebrate and invertebrate fossils in a sequence stratigraphic context: the Jurassic Sundance Formation, Bighorn Basin, Wyoming, USA. Palaios v. 29, p. 277–294.
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