

Jennifer Nelson

Senior Lecturer, Earth Sciences

Purdue University

Department of Earth, Atmospheric and Planetary Sciences
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EDUCATION

2006 MS Geology

Indiana University Purdue University – Indianapolis (IUPUI)

Thesis title: *Climate-related cyclic deposition of carbonate and organic matter in Holocene lacustrine sediment, Lower Michigan, USA*

2006 Graduate Certificate in Geographic Information Systems

Indiana University Purdue University – Indianapolis (IUPUI)

2003 BS Geology, Minor in Geography

Indiana University Purdue University – Indianapolis (IUPUI)

PROFESSIONAL EXPERIENCE

January 2022 – present

Senior Lecturer

Department of Earth, Atmospheric, and Planetary Sciences
Purdue University – West Lafayette

August 2020 – December 2021

Continuing Lecturer

Department of Earth, Atmospheric, and Planetary Sciences
Purdue University – West Lafayette

August 2017 – December 2021

Senior Lecturer

Department of Earth Sciences
Indiana University Purdue University – Indianapolis (IUPUI)

May 2017 – December 2021

Undergraduate Academic Advisor

Department of Earth Sciences
Indiana University Purdue University – Indianapolis (IUPUI)

January 2008 – August 2017

Lecturer

Department of Earth Sciences
Indiana University Purdue University – Indianapolis (IUPUI)

January 2006 – January 2008

Associate Faculty

Department of Earth Sciences
Indiana University Purdue University – Indianapolis (IUPUI)

ADDITIONAL ACTIVITIES

April 2021 – present

Vice President

Central Indiana Chapter of the Association for Women Geoscientists

2014 – present

Geoscience Content Developer

Pearson Publishing, Higher Education

April 2016

Workshop Participant

Service Learning in the Geosciences Workshop
National Academies of Sciences, Washington, DC

PROFESSIONAL ORGANIZATION MEMBERSHIPS

2021 – present	Association for Women Geoscientists (AWG) Central Indiana Chapter
2019 – present	Textbook & Academic Authors Association (TAA)
2016 – present	National Association of Geoscience Teachers (NAGT)
2005 – present	Geological Society of America (GSA)
2017 – 2021	Jaguar Academic Advising Association (JACADA)
2010 – 2011	Ivy Tech Academy for Instructional Excellence

AWARDS and HONORS

2021	Outstanding Advising Award - Faculty Academic Advising, National Academic Advising Association
2020	Academic Advising Award, Purdue School of Science, IUPUI Advisor of the Year Award (Runner-Up), Jaguar Academic Advising Association (JACADA), IUPUI
2016	Trustees Teaching Award, School of Science, IUPUI
2012	Trustees Teaching Award, School of Science, IUPUI

TEACHING EXPERIENCE (2008 – present)

Purdue University	EAPS 10400, Oceanography EAPS 11100, Physical Geology (Lecture and Lab) EAPS 11600, Earthquakes & Volcanoes EAPS 36000, Great Issues in Science and Society EAPS 32700, Climate and Society
IUPUI	GEOL-G115, Introduction to Oceanography GEOL-G205, Reporting Skills in Geoscience SCI-I120, Windows on Science, First-year Seminar GEOL-G107, Environmental Geology GEOL-G110, Physical Geology GEOL-G135, Indiana Geology GEOL-G136, Laboratory: Indiana Geology GEOL-G130, Short Courses: National Parks, Global Warming

SELECTED SERVICE (2018 – present)

Purdue University	Summer 2022 Search Committee Member, EAPS Visiting Assistant Professor
IUPUI	2018 – 2021 Committee Chair, Department of Earth Sciences Scholarship Committee 2016 – 2012 Department Representative, Division of Undergraduate Education Committee 2010 – 2021 Committee Member, Department of Earth Sciences Undergraduate Affairs Committee 2008 – 2021 Course Coordinator, Department of Earth Sciences Online Courses

2018 – 2019

Committee Member, School of Science Dean Search Committee

2017 - 2018

Mentor, School of Science Lecturer's Mentoring Program

September 2017, 2018, 2018

Organizer and Facilitator, Earth Science Career Panel, Fall Career Week

PRESENTATIONS (2015 to present)

- June 2020 *Surprises and Lessons Learned from Moving a Writing & Speaking Course Online*
School of Science Teaching and Learning Practices Mini Symposium, IUPUI
- February 2020 *Indiana's Geologic History*
Indiana Master Naturalist Program, Indiana Department of Natural Resources
Mounds State Park, Anderson, Indiana
- November 2019 *High Impact Practices for High Impact Sustainability*
National Learning Communities Conference
Indianapolis, IN
- April 2019 *National Parks: Geology & Ecology Wonders*
The Indianapolis Public Library
Indianapolis, IN
- August 2017, 2018 *Teaching STEM Lectures and Laboratories*
Teaching Assistant Orientation, Center for Teaching and Learning, IUPUI
- March 2017 *Collaborative Learning in Large Classes*
Faculty Showcase, Center for Teaching and Learning, IUPUI
- July 2016 *Enhancing Student Understanding of Course Concepts: Integration of Service Learning in Online Geoscience Course*
Earth Educators Rendezvous, National Association of Geoscience Teachers
University of Wisconsin, Madison, Wisconsin
- October 2015 *Teaching Geoscience Concepts at an Urban University*
500 Earth Sciences Club
Lawrence Branch of the Indianapolis Public Library, Indianapolis, Indiana
- August 2015 *Building and Managing an Engaging Online Classroom*
Teaching Assistant Orientation, Center for Teaching and Learning, IUPUI
- Effective Group Work*
Teaching Assistant Orientation, Center for Teaching and Learning, IUPUI
- May 2015 *Service Learning: Connecting students to nature in an urban environment*
6th Annual International Symposium on Service Learning
University of Indianapolis, Indianapolis, IN
- February 2015 *Environmental Changes in the Midwestern US*
BIOL-K411 Guest Lecture
School of Science, IUPUI
- January 2015 *Working in Groups in the Classroom*
Teaching Assistant Orientation, Center for Teaching and Learning, IUPUI
- Teaching Successes and Challenges: Faculty Panel*
Teaching Assistant Orientation, Center for Teaching and Learning, IUPUI

GRANTS IN TEACHING

April – June 2015	<i>3D Camera and Digital Image Library</i> School of Science Technology Fee Program, IUPUI \$29,994
August 2012 – May 2013	<i>SL008 Laboratory / Classroom Renovation</i> Learning Environments Grant Center for Teaching and Learning, IUPUI \$25,109
May – December 2008	<i>GEOL-G115 Online Course Development</i> Jumpstart Online Course Development Grant Center for Teaching and Learning, IUPUI \$22,584

PUBLICATIONS

Teaching

- Nelson, Jennifer A., Rossbach, Thomas, Davis, Jessica G., *Sustainability: Thriving Communities, Thriving Planet – An Undergraduate Freshman Learning Community*, Geological Society of America Abstracts with Programs, Vol. 50, Issue 4, 2018. doi: 10.1130/abs/2018NC-311898.
- Nelson, Jennifer A., *Oceanography Virtual Field Trips*, InTeGrate On the Cutting Edge Peer Reviewed Teaching Activities, Science Education Resource Center at Carleton College, 2018.
https://serc.carleton.edu/integrate/workshops/online_learning/activities/178781.html
- Nelson, Jennifer A.; Bristol, Denise (Hillsborough Community College); Hochberg, Amy (Utah State University); Santorelli, Anthony (Anne Arundel Community College); Trujillo, Al (Palomar College). *Investigating Oceanographic Issues and Solutions*, InTeGrate Teaching Activities, Science Education Resource Center at Carleton College, 2017. https://serc.carleton.edu/integrate/workshops/online_learning/activities/192297.html
- Nelson, J. Integration of Service Learning in Online Geoscience Courses. *On the Cutting Edge - Strong Undergraduate Geoscience Teaching*; Teaching Service Learning in the Geosciences Topical Resources; National Association of Geoscience Teachers, 2016.
<http://serc.carleton.edu/NAGTWorkshops/servicelearning/activities/137886.html>

Research

- Nelson, J. A.; Licht, K.; Yansa, C.; Filippelli, G. Climate-Related Cyclic Deposition of Carbonate and Organic Matter in Holocene Lacustrine Sediment, Lower Michigan, USA. *Journal of Paleolimnology* 2009, 44 (1), 1–13.

Other (Geoscience Content)

- Nelson, J. A. GraphIt! Biodiversity, Coaching Activity, Mastering Environmental Science, Pearson Publishing, 2022.
- Nelson, J. A. GraphIt! Climate Change, Coaching Activity, Mastering Environmental Science, Pearson Publishing, 2022.
- Nelson, J. A. GraphIt! Energy Use, Coaching Activity, Mastering Environmental Science, Pearson Publishing, 2022.
- Nelson, J. A. GraphIt! Introduction to Graphing, Coaching Activity, Mastering Environmental Science, Pearson Publishing, 2022.
- Nelson, J. A. Process of Science: Coral Reef Fishes - Adapt or Move?, Essentials of Oceanography, 13th ed., Pearson Publishing, 2019.
- Nelson, J. A. Process of Science: Ocean Soundscapes Interrupted by Hurricanes, Essentials of Oceanography, 13th ed., Pearson Publishing, 2019.
- Nelson, J. A. Instructor Resource Manual for *Earth*, 13th ed. Pearson Publishing, 2019.
- Nelson, J. A. Instructor Resource Manual for *Earth*, 12th ed. Pearson Publishing, 2015.
- Nelson, J. A. Instructor Resource Manual for *Earth*, 11th ed. Pearson Publishing, 2014.