

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

January 2024 – present

Treasurer

Central Indiana Chapter of the Association for Women Geoscientists

2014 – present

Geoscience Content Author

Pearson Publishing, Higher Education

April 2021 – December 2023

Founding Vice President

Central Indiana Chapter of the Association for Women Geoscientists

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 11200, Earth through Time (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	Fall 2023 – present Member, EAPS Undergraduate Curriculum Committee Summer 2022 – Spring 2023 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)

September 2023	<i>Exploring Indiana's Geology</i> Indiana Master Naturalist Program, Indiana Department of Natural Resources Eagle Creek State Park, Indianapolis, Indiana
June 2020	<i>Surprises and Lessons Learned from Moving a Writing & Speaking Course Online</i> School of Science Teaching and Learning Practices Mini Symposium, IUPUI
February 2020	<i>Indiana's Geologic History</i> Indiana Master Naturalist Program, Indiana Department of Natural Resources Mounds State Park, Anderson, Indiana
November 2019	<i>High Impact Practices for High Impact Sustainability</i> National Learning Communities Conference Indianapolis, IN
April 2019	<i>National Parks: Geology & Ecology Wonders</i> The Indianapolis Public Library Indianapolis, IN
August 2017, 2018	<i>Teaching STEM Lectures and Laboratories</i> Teaching Assistant Orientation, Center for Teaching and Learning, IUPUI
March 2017	<i>Collaborative Learning in Large Classes</i> Faculty Showcase, Center for Teaching and Learning, IUPUI
July 2016	<i>Enhancing Student Understanding of Course Concepts: Integration of Service Learning in Online Geoscience Course</i> Earth Educators Rendezvous, National Association of Geoscience Teachers University of Wisconsin, Madison, Wisconsin
October 2015	<i>Teaching Geoscience Concepts at an Urban University</i> 500 Earth Sciences Club Lawrence Branch of the Indianapolis Public Library, Indianapolis, Indiana
August 2015	<i>Building and Managing an Engaging Online Classroom</i> Teaching Assistant Orientation, Center for Teaching and Learning, IUPUI <i>Effective Group Work</i> Teaching Assistant Orientation, Center for Teaching and Learning, IUPUI

May 2015	<i>Service Learning: Connecting students to nature in an urban environment</i> 6th Annual International Symposium on Service Learning University of Indianapolis, Indianapolis, IN
February 2015	<i>Environmental Changes in the Midwestern US</i> BIOL-K411 Guest Lecture School of Science, IUPUI
January 2015	<i>Working in Groups in the Classroom</i> Teaching Assistant Orientation, Center for Teaching and Learning, IUPUI <i>Teaching Successes and Challenges: Faculty Panel</i> 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)

- (in progress) Tarbuck, E.J., Lutgens, F.K, and Nelson, J.A., Earth Science, 16th edition, 2024.
- (in progress) Tarbuck, E.J., Lutgens, F.K, and Nelson, J.A., Applications and Investigations in Earth Science, 10th edition, 2024.
- 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.