HOLLY S. GODSEY

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Department of Geology & Geophysics
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EDUCATION

Ph.D. Geology 2012
University of Utah
Advisor: Dr. Marjorie A. Chan
Dissertation Title: Geochronology, Stratigraphy and Paleoenvironmental Implications of Pleistocene Lake Bonneville Deposits, Northwestern, Utah

M.S. Oceanography (Emphasis: Marine Geology & Geochemistry) 1998
University of Michigan
Department of Geological Sciences
Thesis Title: Post-Younger Dryas Seasonality in the North American Midcontinent Region as Recorded in Lake Huron Varved Sediments

B.S. Geology, *cum laude* 1995
University of Utah

ACADEMIC POSITIONS

Professor (Lecturer), Department of Geology & Geophysics 2023-present
College of Science, University of Utah

Clinical Associate Professor, Urban Institute for Teacher Education 2021-present
College of Education, University of Utah

Associate Professor (Lecturer), Department of Geology & Geophysics 2017-2023
College of Mines and Earth Sciences, University of Utah

Assistant Professor (Lecturer), Department of Geology & Geophysics 2012-2015
College of Mines and Earth Sciences, University of Utah

RESEARCH INTERESTS

1. Improving STEM education across the educational continuum (K-12, undergraduate, graduate, faculty)
2. Building capacity to support marginalized and transfer students in STEM
3. Lacustrine records of Pleistocene-Holocene paleoclimate transitions

GRANTS

Funded Grants: National Funding Agencies

4. PI: Lauren Barth-Cohen. **Co-PIs: Holly S. Godsey** and Lynne Zummo. *NSF ECR-EDU Core Research Program*. Collaborative Research: Learning to observe: Unpacking teachers' development of expertise in scientific observation. Award # 2201764 [Research] **$600K**. 2022-2025

3. **PI: Holly S. Godsey.** Co-PIs: Lauren Barth-Cohen, Mary Burbank, Jordan Gerton, and Lynne Zummo. *NSF Noyce Robert Noyce Scholarship Program.* The Utah Collaborative for Equitable STEM Teaching (UCET). Award #2050579 [Training & Research] **$1.4M.** 2021-2030 (extended)

2. **PI: Holly S. Godsey.** Co-PIs: Lauren Barth-Cohen, Mary Burbank, and Jordan Gerton. *NSF Noyce Robert Noyce Scholarship Program.* The Utah Collaborative to Build Capacity for a Streamlined Science Teacher Preparation Program. Award # 1852932 [Research] **$123K.** 2019-2020

1. PI: Jim Ehleringer. **Co-PIs: Holly S. Godsey**, Brenda Bowen, Nalini Nadkarni, and Steve Burian. NSF S-STEM program. Undergraduate Training for the Environment (UTE) Scholars. Award # 2152140 [Training] **$610K.** 2013-2018

Funded Grants: National Foundations

2. **PD: Holly S. Godsey.** Co-PDs: Jordan Gerton, Craig Caldwell, Martha Bradley, and Diane Pataki. *Howard Hughes Medical Institute (HHMI)*. Utah Pathways to STEM (UPSTEM). Grant #52008721 [Research & Training] **$1.05M.** 2017-2024

1. PI: Gina Frey. **Co-PI: Holly S. Godsey.** *American Association of Universities (AAU).* Improving STEM Instruction at the University of Utah and Salt Lake Community College. [Research] **$15K.** 2022-2024

Funded Grants: State and Regional Organizations

7. PI: Tino Nyawelo. **Co-PI: Holly Godsey**. *Utah System of Higher Education StepUP READY Grant*. REFUGES (Refugees Exploring the Foundations of Undergraduate Education in Science [Education] **$113K.** 2016-2017

6. **PI (University of Utah): Holly S. Godsey.** Co-PIs: Candace Penrod (SLC School District) and Megan Black (Granite School District). *Utah STEM Action Center Grant*. Elementary STEM Endorsement Program at the University of Utah [Training] **$200K.** 2015-2017

5. **PD: Holly S. Godsey**. Co-PDs: Adam Johnston, Ken O'Brien, Larry Madden, Barbara Gentry, Matthew Patterson, Tyson Grover, Dirk Matthias. *US Dept. of Education Math and Science Partnership (MSP) State Block Grant.* Master of Science for Secondary School Teachers (MSSST): Collaboration to Build Teacher Knowledge and Science Practice Skills [Training] **$160K.** 2015-2017

4. PI: Tino Nyawelo. **Co-PI: Holly Godsey**. *Utah System of Higher Education ImPACT Subgrant.* Improving Preparation, Access, & Communities Together. **$75K** 2015-2016

3. PI: Tino Nyawelo. **Co-PI: Holly Godsey**. Utah Department of Workforce Services STEMLink Afterschool Grant. **$508K** 2014-2017

2. PI: Tino Nyawelo. **Co-PI: Holly Godsey**. *Utah System of Higher Education ImPACT Subgrant.* Improving Preparation, Access, & Communities Together. **$50K.** 2014-2015

1. PI: Tino Nyawelo. **Co-PI: Holly Godsey**. *Utah System of Higher Education ImPACT Subgrant.* Improving Preparation, Access, & Communities Together. **$75K.** 2013-2014

Funded Grants: College and University

1. PI: Janet Lindsley. **Co-PI: Holly S. Godsey.** *University of Utah 1U4U Innovation Funding grant.* Building a Branch from UPSTEM to the HSC: Co-creating infrastructure and skills to increase diversity and success in our health professional schools [Research] **$15K**. 2020-2021

2. **PI: Holly S. Godsey.** Co-PIs: Jordan Gerton, Jess Dwyer, Holly Sebahar, and Kelly MacArthur. *COS Course Transformation grant.* Transforming Instruction in the College of Science Through Learning Assistants [Training] **$200K.** 2018-2020

Unfunded Grants

10. PI: Leif Anderson. **Co-PI: Holly S. Godsey.** *National Science Foundation GEO Cyberinfrastructure program.* Collaborative Research: Geo OSE Track1: Building open mapping, approaches, practice, and capacity for Quaternary geoscience [Research] **$352K.** 2025

9. PI: Nancy Songer. Co-PIs: David Stroupe, Martha C. Inouye, Stacy Firth, Melissa Braaten. **Senior Personnel: Holly S. Godsey.** *National STEM Teacher Corps Pilot Project.* The Rural Alliance for Interdisciplinary Science and Engineering in the Mountain West [Training] **$4.7M.** 2024

8. PI: Xinbo Yang. **Senior Personnel: Holly S. Godsey**. US Dept. of Energy CORE-CM Region 7: Pacific Coast & Basin and Range Critical Minerals Initiative [Research] **$1.6M.** 2024

7. PI: Jordan Gerton. **Co-PIs: Holly S. Godsey**, Tino Nyawelo, Anna Gannett Haller. *NSF S-STEM program.* Leading and Achieving at the U to Empower a New Generation of Changemakers (LAUNCH) [Training] **$2.5M.** 2023

6. PI: Tino Nyawelo. **Co-PIs: Holly S. Godsey**, Ramon Barthelemy, and Jordan Gerton. *NSF S-STEM program.* Utah Communities in STEM (UCS) [Training] **$1M.** 2020

5. PI: Rebecca Sanson. **Co-PIs: Holly S. Godsey**, Joshua Stowers, Max Longhurst, and Heather Leary. *NSF Discovery Research K-12 program*. Developing Three-dimensional Science Teachers in Underserved Rural Settings [Research and Training] **$4.3M.** 2019

4. **PI: Holly S. Godsey**. Co-PIs: Jordan Gerton, Tino Nyawelo, Craig Caldwell and Diane Pataki. *NSF S-STEM Program*. STEM Pathways: A multi-institutional collaboration to broaden participation in STEM through scholarships, student support, professional development and data sharing [Training] **$5M.** 2016

3. **PI: Holly S. Godsey**. Co-PIs: Mary Burbank, Fred Adler, and Herb C. Clemens. *NSF Noyce Robert Noyce Scholarship Program.* Community for Science-Math Integration in Curriculum (COSMIC) [Training] **$1.5M.** 2014

2. **PI: Holly S. Godsey**. Co-PIs: Mary Burbank, Fred Adler, and Hugo Rossi. *NSF Noyce Robert Noyce Scholarship Program.* COSMIC-Community for Science-Math Integration in Curriculum [Training] **$1.5M.** 2013

1. **PI: Holly S. Godsey**. *NSF Discovery Research K-12 program.* Collaborative Research: Investigating the impact of STEM graduate students in K-12 classrooms [Research] **$749K.** 2012

HONORS, AWARDS, AND NOMINATIONS

National, International

Quaternary Research - Most Cited Article from 2005 to 2010. For: New evidence for an extended occupation of the Provo shoreline and implications for regional climate change, Pleistocene Lake Bonneville, Utah. *Quaternary Research* 63, 212– 223

Regional, Local

Outstanding Higher Education Science Educator Award, Utah Science Teachers Association, 2013

College, University

MUSE (My Utah Signature Experience) Professor, Office of Undergraduate Studies, 2016-2022

Faculty Fellow, Senior Vice President for Academic Affairs, 2019-2020

Excellence in Innovation in General Education Award, Office of Undergraduate Studies, 2019

PUBLICATIONS

Peer-Reviewed Publications

*Asterisk indicates student co-authors.

Journal Articles

6. Torres, H.L*, Schmitz, O.*, Sanders, C.G., **Godsey, H.S.,** and Frey, R.F. Developing an Effective Transfer Partnership between a Two-Year Institution and a Research-Intensive Institution: A Case Study. *CBE-Life Science Education (submitted Aug. 2025).*

5. **Godsey, H.S.,** Oviatt, C.G. Miller, D.M., and Chan, M.A., 2011. Stratigraphy and chronology of offshore to nearshore deposits associated with the Provo shoreline, Pleistocene Lake Bonneville, Utah, *Palaeogeography, Palaeoclimatology, Palaeoecology,* 310, 442-450. Available online at http://dx.doi.org/10.1016/j.palaeo.2011.08.005.

4. **Godsey, H.S.,** Currey, D.R., and Chan, M.A., 2005, New evidence for an extended occupation of the Provo shoreline and implications for regional climate change, Pleistocene Lake Bonneville, Utah. *Quaternary Research* 63, 212– 223.

3. Chan, M.A., and **Godsey, H.S.,** 2004, Geoantiquities: Concepts and Applications for Education in the Urban Landscape, *Journal of Geoscience Education*, Vol. 52, n. 5, pp. 445-452**.**

2. **Godsey, H.S.,** Moore, Jr., T.C., Rea, D.K., and Shane, L.C.K., 1999, Post-Younger Dryas seasonality in the North American midcontinent region as recorded in Lake Huron varved sediments, *Canadian Journal of Earth Science*, v. 36, n. 4, p. 533-547.

1. Moore Jr., T.C., Rea, D.K. and **Godsey, H.S.,** 1998, Regional variation in modern radiocarbon ages and the hard-water effects in Lakes Michigan and Huron, *Journal of Paleolimnology*, Vol. 20, No. 4, p. 347-351.

Book and Monograph Chapters

4. Chan, M.A., and **Godsey, H.S.,** 2016. Lake Bonneville Geoantiquities in the Urban Landscape: Potential Loss of Geological Heritage *in* Oviatt, C.G., and Shroder, J.F. (Eds.) Lake Bonneville: A Scientific Update (pp. 660). Cambridge, MA: Elsevier.

3. Bearden, K. and **Godsey, H.S.,** 2013. Communicating Project Success *in* Stoll and Ortega (Eds.) The Power of Partnerships: A Guide from the NSF Graduate STEM Fellows in K-12 Education (GK-12) Program, American Association for the Advancement of Science.

2. **Godsey, H.S.,** Atwood, G., Lips, E., Miller, D.M., Milligan, M. and Oviatt, C.G., 2005. Don R. Currey Memorial Field Trip to the shores of Pleistocene Lake Bonneville, *in* The Geological Society of America Field Guide 6: Interior Western United States, p. 419-448.

1. Chan, M. A., Currey, D.R., Dion, A. and **Godsey, H.S.,** 2003. Geoantiquities in the urban landscape: Earth History Records in the Cities, *in* Heiken, G., Fakundiny, R., and Sutter, J. (Eds.), Earth Science in the Cities: A Reader: AGU Monograph, p. 21-42.

National Conference Proceedings and Presentations

29. **Godsey, H.S.,** Barth-Cohen, L., Zummo, L., Adams, A.*, and Braeden, S. Lost in Time and Space: Scaffolding the Development of Observational Skills in a Field Geology Setting, Geological Society of America Abstracts with Programs, 91-2, 2025.

28. Morris, A.M.*, Maza, K.*, Good, T. and **Godsey, H.S.** Expanding the Reach of Outreach: Earth Science Exploration for K-12 Students, Geological Society of America Rocky Mountain Section Abstract, Provo, UT, May 18-20, 2025.

27. Barth-Cohen, L., Braden, S., Zummo, L., Adams, A.*, and **Godsey, H.S.** Learning processes in field-based Geology Environment, SIG 03 Conference, 2024.

26. Borda, E., Facciotti, M., **Godsey, H.,** and Nair, S., Learning together: An inter-institutional collaboration to lead inclusion in STEM, AAC&U Transforming STEM Higher Education Conference, Washington, D.C., Nov. 3, 2023.

25. Barth-Cohen, L., Zummo, L., Braden, S, Adams, A.* and **Godsey, H.S.,** Sensemaking about geologic features that are spatially adjacent and chronologically distant. American Educational Research Association Meeting, San Francisco, CA, April 2023.

24. Zummo, L., Barth-Cohen, L., **Godsey, H.S.**, Burbank, M. and Cook, A. Using social and environmental justice issues as anchoring phenomena in an innovative science teaching methods course. Association for Science Teacher Education conference, SLC, UT, Jan 2023.

23. Fischer-Femal, B.*, Lopez, S.*, Hartley, H.* and **Godsey, H.** Connecting graduate students, research and K-12 students through online outreach: Making the most of online learning during COVID-19, Geological Society of America Abstracts with Programs, 53, 6, 2021.

22. Berryman, J., Beagley, T., **Godsey, H.,** and Caldwell, C. Realistic Transfer Pathways: Redefining the concept of an Associate's Degree, Association of American Colleges and Universities Transforming STEM Higher Education Conference, Nov. 5, 2020.

21. **Godsey, H.S.,** Saltiban, B.O., Gerton, J.M., Bradley, M., Caldwell, C., and Pataki, D. Getting to The Root of the Problem: A discussion about affecting change in STEM, AAC&U STEM Transformation Conference, Atlanta, GA, Nov. 8-10, 2018.

20. Semken, S., **Godsey, H.S.,** and Tsosie, W. (2018). Tsé na'alkaah: Combining Native and Mainstream Geoscience to Foster Place-Based K-12 STEM Teacher Professional Development on the Colorado Plateau. AGU abstract.

19. Semken, S., **Godsey, H.S.,** and Tsosie, W., Tsé na'alkaah: Weaving Native and Mainstream Earth and Environmental Science into Place-Based Teacher Professional Development on the Colorado Plateau. American Geophysical Union, Fall Meeting 2017, abstract #PA53A-0250

18. **Godsey, H.S.,** Stark, L.A., and Goldsmith, M.M., 2014. The Benefits and Challenges of Engaging Teachers in Research to Enhance Science Process Skills, *GSA Abstracts with Programs,* Vol. 46, No. 6., 152-2.

17. **Godsey, H.S.,** 2014. The Case for Faculty Engagement with the K-12 Community. In J. Settlage & A. Johnston (Eds.), *Proceedings of the Science Education at the Crossroads Conference* (pp. 36-37). Portland, OR. Available online at www.sciedxroads.org/proceedings2014.html.

16. Moore, K.A.*, Gaukler, S.*, **Godsey, H.,** and Feener, D., 2012. Think Globally Learn Locally: Introducing scientists into science classrooms. *American Society of Cell Biologists Annual Meeting*, Abstract-2716.

15. Chan, M.A. and **Godsey, H.S.,** 2009, Geoantiquities in the urban landscape: potential loss of geological heritage. *Geological Society of America Abstracts with Programs*, Vol. 41, No. 7, p. 342.

14. **Godsey, H.S.,** and Chapman, D.S, 2007, Project WEST: Fostering Scientific Inquiry and Collaborations from K Through Gray. *Eos, Transactions, American Geophysical Union*, 88 (52), Fall Meeting Suppl., Abstract ED23B-1280.

13. **Godsey, H.S.,** Chapman, D., Hynek, S.*, Jarrell, E.*, Johnson, W., Naftz, D., Neuman, C., and Uno, K.*, 2006, Saline Lakes: Platforms for Place-Based Scientific Inquiry by K-12 Students, *Eos, Transactions, American Geophysical Union*, 87 (52), Fall Meeting Suppl., Abstract H52A-07.

12. **Godsey, H.S.,** Petersen, E.U., Chapman, D.S., Harbison, C.*, Hynek, S.A.*, Uno, K.*, and Wilkinson, E.*, 2006, WEST (Water, the Environment, Science and Teaching): Linking scientists, teachers, and students through watershed education. *Geological Society of America Abstracts with Programs*, Vol. 38, No. 7, p. 361.

11. **Godsey, H.S.,** and Chan, M.A., 2005, New Evidence for an extended occupation of the Provo shoreline and implications for paleoenvironmental change from Pleistocene Lake Bonneville, Utah. *Geological Society of America Abstracts with Programs*, Vol. 37, No. 7, p. 335.

10. **Godsey, H.S.,** Chan, M.A., and Dion, A.N., 2005, Geoantiquities: A multi-faceted approach to documentation and conservation of regional landscapes with global value, *Geological Society of America Abstracts with Programs*, Vol. 37, No. 7, p. 190.

9. Petersen, E.U., **Godsey, H.S.,** Ali-Adeeb, J.*, Chapman, D.S., Cohen, L.*, Hynek, S.A.*, Madden, L., Milward, L., O'Grady, S.*, and Zanno, L.*, 2005, WEST (Water, the Environment, Science, and Teaching): Implementing Inquiry-based Learning in K-12 Classrooms, *Geological Society of America Abstracts with Programs,* Vol. 37, No. 7, p. 280.

8. Petersen, E.U., Chapman, D.S., **Godsey, H.S.,** Madden, L., Milward, L., 2005, Project WEST: Partnering to Enhance Inquiry Based Science Teaching in the Salt Lake City School District. *ASLO (American*

Society of Limnology and Oceanography) Aquatic Sciences National Meeting, February 20-25, Salt Lake City, Utah. p. 43.

7. Prose, D.V., LaMacchia, D.M, Chan, M.A., and **Godsey, H.S.,** 2005, Geoantiquities: Video outreach and education, *Geological Society of America Abstracts with Programs*, Vol. 37, No. 7, p. 190.

6. Petersen, E., Ali-Adeeb, J.*, Cerling, T., Chan, M., Chapman, D., Cohen, L.*, Davis, M.*, Dearing, D., Hill, S.*, **Godsey, H.,** Hynek, S.*, Madden, L., Millward, L., O'Grady, S.*, Richards, L.*, Solomon, K., Sampson, J., Shafer, J., Zanno, L.* and Zipser, E., 2004, Project WEST: Water, the Environment, Science and Teaching, *Eos, Transactions, American Geophysical Union*, Vol. 85, No. 47, Fall Meet. Suppl.

5. Felton, A.K.*, **Godsey, H.S.**, Jewell, P., Chan, M.A. and D.R. Currey, 2002, Depositional models for tufa development in Pleistocene Lake Bonneville, Utah. *Geological Society of America Abstracts with Programs*, Vol. 34, No. 6, p. 368.

4. **Godsey, H.S.,** Currey, D.R., Felton, A.K.*, and Chan, M.A., 2002, Refining the record of Pleistocene lake level change, Lake Bonneville, Utah; evidence of climate-driven oscillations from the Provo shorezone. *Geological Society of America Abstracts with Programs*, Vol. 34, No. 6, p. 368.

3. **Godsey, H.S.,** Currey, D.R. and M.A. Chan, 2001, A high resolution record of Late Pleistocene Provo shoreline development from Lake Bonneville, Western Utah, *Geological Society of America Abstracts with Programs*, Vol. 33, No. 6, p. 216.

2. Rea, D.K., **Godsey, H.S.,** Moore, T.C., Jr., Lewis, C.F.M., Shane, L.C.K., Smith, A.J., 1998, Annual and seasonal climatic variability in the North American Mid Continent during the Younger Dryas; a study of Lake Huron varved sediments, *Geological Society of America Abstracts with Programs*, Vol. 30, No.7, p. 164.

1. **Godsey, H.S.,** Moore, T.C., and Rea, D.K., 1997, Seasonal climate variability in the Holocene as recorded in northern Lake Huron varved sediments; an image analysis approach to determining varve thickness, *Geological Society of America Abstracts with Programs*, Vol. 29, No. 6, p. 212.

Non-Peer Reviewed Publications and Presentations

11. **Godsey, H.S.,** Dahl, C.*, and Larsen, C.* The Utah Collaborative: Cultivating Communities of Practice to Strengthen Teacher Retention, NSF Noyce Annual Conference, Washington, D.C., July 2025.

10. Zummo, L., **Godsey H.S.,** McMurray, R.*, and Searle, B.* Utah Collaborative for Equitable STEM Teaching: Supporting Pre-Service Teacher Growth in Ambitious Teaching Practices for a Changing World, NSF Noyce Annual Conference, Washington, D.C., July 15, 2024.

9. **Godsey, H.S.,** Rocks, A., Burbank, M., Barth-Cohen, L., Zummo, L., Gupta, U, Gerton, J., and McMurray,R. Utah Collaborative for Equitable STEM Teaching: New approaches to building stronger STEM Teachers, NSF Noyce Annual Conference, Washington, D.C., July 2023.

8. **Godsey, H.S**., Gerton, J., Caldwell, C., Rocks, A., Frey, G., Taylor, J., and MacArthur, K. UPSTEM: Transforming institutions to better serve transfer students and marginalized populations, Science of Teaching and Learning conference, University of California Davis, Dec. 2, 2022.

7. **Godsey, H.S.,** Gerton, J.M. and Rocks, A. Driving Change by Empowering Faculty with Data on Inclusion and Equity, National Science Education Centers Virtual Conference, June 10-11, 2020.

6. **Godsey, H.S.,** Semken, S., Tsosie, W., Cangelosi, A., Begay, B., and Penrod, C. (2017). Weaving Together Native Cultural Knowledge and Western Science to Support Diverse Students' Learning about the Earth. National Association of Geoscience Teachers (NAGT) Earth Educator's Rendezvous, July 17-21, 2017.

5. Gaines, E., **Godsey, H.,** Nyawelo, T., and Gerton, J. Promoting Undergraduate Success in Science and Math at the University of Utah through a Multi-Faceted Approach. Abstract and poster presentation at the first annual meeting of the Science and Math Teaching Imperative Network of Science Education Centers. June 2016.

4. Chan, M.S., Currey, D.R., Dion, A.N.*and **Godsey, H.S.**, 2003. Geology for the Record, *Geotimes*, v. 48, n. 6, p.14-17.

3. **Godsey, H.S.** A record of changing climate conditions during the late Pleistocene from shoreline studies in the Bonneville basin, Utah. *28th Annual Great Basin Anthropological Conference Abstracts*. June 2002.

2. **Godsey-Bennett, H.S.,** Chan, M.A., Currey, D.R., and G. Atwood, 2001. The Stockton Bar, A Geologic Treasure in Tooele County. *Survey Notes, Utah Geological Survey*, v. 33, n. 2, p. 11.

1. **Godsey, H.S.** and M.A. Chan, 2001. Geoantiquities: Natural records of Earth history at risk in the urban environment. *Friends of Great Salt Lake*, v. 7, n. 2., p. 6.

INVITED TALKS

15. College of Science Career-line Faculty Lunch Speaker Series, Feb. 29, 2024

14. University of Utah Department of Atmospheric Sciences Colloquium Series, *Best Practices in Mentoring: It's all about the Atmosphere*, Nov. 16, 2022

13. University of Utah Go Learn Speaker Series, *Iceland: Land of Fire and Ice*, July 2020

12. Panel Speaker, Building Professional Relationships, PathMaker Workshop, Huntsman Cancer Institute, June 17, 2020

11. Panel Speaker, First Annual Transfer Pathways Summit, University of Utah – Salt Lake Community College, Aug 2019

10. Getting to the Root of the Problem: A Discussion about Inclusion in STEM, Northwest Florida State College, March 2019

9. "Gary and Ann Crocker Science Center: A catalyst for innovations in integrated science research and education", Crimson Laureate Society CSC opening event, Jan 2018.

8. "Bringing the U to You: Outreach and Service-Learning in K-12 Schools", College of Science - Science at Breakfast Series, Sept 2016.

7. "The Case for Faculty Engagement in the K-12 Community", Science Education at the Crossroads Conference, Portland, Oregon, Sept 2014.

6. "The Significance of the Stockton Bar", Tooele Historical Society Meeting, Sept 2011.

5. "Sustaining Community-Campus Relationships", University of Utah and Utah Campus Compact Community-Engaged Faculty Institute, Aug 2010.

4. "Sand and Snails: Evidence for a mid-Provo regression?", Utah State University Dept. of Geology Lecture Series, Feb 2008.

3. "New Evidence for an Extended Occupation of the Provo Shoreline and Implications for Paleoenvironmental Change: Pleistocene Lake Bonneville, Utah", Geological Society of America Meeting, Salt Lake City, Oct 2005.

2. "The Stockton Bar", Friends of Great Salt Lake Spring field trip, 2000.

1. "Geoantiquities", Friends of Great Salt Lake Fall meeting, 2000.

TEACHING

COURSES TAUGHT (INSTRUCTOR OF RECORD)
***Indicates new course development**

Course #	Cr	Title	Course Type	Semesters F = Fall, S = Spring, Su = Summer
GEO 3250	3	Geology of Utah	Elective lecture course for upper division GEO majors.	S24, F25
EDU 5940-30	3	Matter and Energy in STEM*	Lecture and field geology course for teachers in the Elementary STEM Endorsement program.	Su25
GEO 1100	3	Evolving Earth	Core lecture course for GEO majors. Carries Life Science (LS) designation.	F24, S26
GEO 6920	3	Physical Geology for Teachers*	Special topics Earth Science lecture course (some years were online) for teachers in the MS for Secondary School Teachers program or those participating in the Learning to Observe research study.	Su2012, Su2014, Su2016, Su2018, Su21, S23, S24
GEO 6920	3	Field Geology for Teachers*	Special topics Earth Science field geology course for teachers in the MS for Secondary School Teachers program or those participating in the Learning to Observe research study.	Su2012, Su2014, Su2016, Su2018, Su21, S23, S24
GEO 2500	3	Wasatch in the Field	Core lecture and field geology course for GEO majors. Carries a Physical Science (PS) designation.	F24

SCI 3900	3	Being Human in STEM	Elective lecture course for STEM majors. Carries Diversity (DV) designation.	S22
EDU 6950	1	Translating Science Content to Practice Seminar*	Seminar for teachers in the MS for Secondary School Teachers program.	F and S semesters 2010-2023
GEO 3670	3	Science Communication and Mentoring Skills*	Elective lecture and lab course for STEM majors. Lab component consisted of teaching 2 hours/week in K-12 schools. Carries Upper Division Communication and Writing (CW) designation.	S18, S19
SCI 2010	3	The Nature of Scientific Inquiry*	Elective lecture course taught as part of the "Da Vinci - Science and Society" block in the BlockU learning community. Carries a Physical Science (PS) designation.	F17, F18
SCI 2020	3	Science and Society*	Elective lecture course taught as part of the "Da Vinci - Science and Society" block in the BlockU learning community. Carries a Physical Science (PS) designation.	S18, S19
GEO 6920	3	Earth Science from Native and Western Scientific Perspectives*	Special topics field geology course for teachers participating in a science and culture workshop on the Navajo reservation.	Su2013, Su2016

Other New Course Development

SCI 5050	1	The Science of Learning*	Pedagogical practices course for students in the College of Science Learning Assistant (LA) program.	Developed course and facilitated approval process but have not taught

Non-credit Courses, Seminars and Workshops

Noyce/TFU Teaching and Learning Seminars	Monthly content-based pedagogical seminar for pre-service teachers in the Teach for Utah and Noyce Teacher Scholarship programs.	F and S 2021-present
Geology of Iceland	2-3 week field course in Iceland for the University of Utah's Go Learn Program. https://continue.utah.edu/golearn/iceland18	July 2018, 2019, 2022, 2023, 2024, 2026

EAST/WEST/TGLL Teaching and Learning Seminars	Weekly content-based pedagogical seminar for STEM graduate and undergraduate students in the NSF GK-12 program	F and S 2004-2011
Yampa River Geology	5-day field course on the Yampa and Green Rivers for OARS Whitewater Rafting	May 2007-2011
Introduction to Geology*	Online course for practicing teachers working on an Earth Science Endorsement from the Utah State Board of Education (USBE).	Developed and taught, 2009
Cataract Canyon Natural History Course	6-day field course for high school students on the Colorado River for OARS Whitewater Rafting	June 2008
Don R. Currey Memorial Field Trip	3-day field trip for the Geological Society of America Annual Meeting	Oct. 2005
Friends of Great Salt Lake Field Seminar Series	Multiple day trips to various field sites around the Bonneville Basin for members of the Friends of Great Salt Lake	Sp 2002
Antelope Island Teachers Workshop	In-service geology field trip for middle and high school teachers	Sp 2001

STUDENT MENTORING AND SUPERVISION

PhD Committee Member

1.	Monique Holt, PhD Geophysics, Geology & Geophysics, University of Utah	April 2021

MS Committee Member

1.	Stephanie Coates, MS Biology (Teaching), Biological Sciences, University of Utah	Dec 2012
2.	Erin Keenan, MS Biology (Teaching), Biological Sciences, University of Utah	Dec 2012
3.	Neil Opperman, Professional MS Science and Technology (Env Studies), University of Utah	May 2013

4.	Victor O'Brien, MS Chemistry (Teaching), Chemistry, University of Utah	May 2013
5.	Paul Thomas, MS Geology, Geology & Geophysics, University of Utah	May 2014
6.	Jacob Chalmers, MS Biology (Teaching), Biology, University of Utah	Dec 2014
7.	Ron Christensen, MS Earth Science, (Teaching), Geology & Geophysics, University of Utah	Dec 2014
8.	Lisa Covert, MS Earth Science (Teaching), Geology & Geophysics, University of Utah	Dec 2014
9.	Melissa Decker, MS Earth Science (Teaching), Geology & Geophysics, University of Utah	Dec 2014
10.	Jake Flannigan, MS Earth Science (Teaching), Geology & Geophysics, University of Utah	Dec 2014
11.	Janae Hunt, MS Earth Science (Teaching), Geology & Geophysics, University of Utah	Dec 2014
12.	Amanda Johnson, MS Earth Science (Teaching), Geology & Geophysics, University of Utah	Dec 2014
13.	Crystal King, MS Earth Science (Teaching), Geology & Geophysics, University of Utah	Dec 2014
14.	Kelly Melrose, MS Earth Science (Teaching), Geology & Geophysics, University of Utah	Dec 2014
15.	Christina Stenten, MS Earth Science (Teaching), Geology & Geophysics, University of Utah	Dec 2014
16.	David Vala, MS Earth Science (Teaching), Geology & Geophysics, University of Utah	Dec 2014
17.	Brent Blanch, MS Earth Science (Teaching), Geology & Geophysics, University of Utah	Dec 2016

18.	Nicholas Angel, MS Earth Science (Teaching), Geology & Geophysics, University of Utah	Dec 2016
19.	Jessica Watson, MS Earth Science (Teaching), Geology & Geophysics, University of Utah	Dec 2016
20.	Victoria Johnson, MS Earth Science (Teaching), Geology & Geophysics, University of Utah	Dec 2020
21.	Janalee Roberts, MS Earth Science (Teaching), Geology & Geophysics, University of Utah	Dec 2020
22.	Alesha Shulzke, MS Earth Science (Teaching), Geology & Geophysics, University of Utah	Dec 2020
23.	Joanna Owens, MS Earth Science (Teaching), Geology & Geophysics, University of Utah	Jan 2021
24.	Holly Anderson, MS Earth Science (Teaching), Geology & Geophysics, University of Utah	Dec 2023
25.	Minna Kim, MS Earth Science (Teaching), Geology & Geophysics, University of Utah	May 2024

MEd Committee Member

1.	Connor Harrison Schultz, MEd Educational Psychology, Dept. of Educational Psychology, University of Utah	May 2025
2.	Raquel Ana Bucio, MEd Educational Psychology, Dept. of Educational Psychology, University of Utah	May 2025
3.	Eva Quintus-Bosz, MEd Educational Psychology, Dept. of Educational Psychology, University of Utah	May 2025
4.	Annabeth Beckham, MEd Educational Psychology, Dept. of Educational Psychology, University of Utah	Expected May 2026
5.	Carson Dahl, MEd Educational Psychology, Dept. of Educational Psychology, University of Utah	Expected May 2026

6.	Zack Knettles, MEd Educational Psychology, Dept. of Educational Psychology, University of Utah	Expected May 2026
7.	Ana Nunes, MEd Educational Psychology, Dept. of Educational Psychology, University of Utah	Expected May 2026
8.	Jeremy Shurtleff, MEd Educational Psychology, Dept. of Educational Psychology, University of Utah	Expected May 2026

Undergraduate Thesis Advisee

1.	Maggie Scott, B.S. in Undergraduate Studies (STEAM Education), Dept. of Undergraduate Studies	May 2025

SERVICE

Department – Administrative Service

Director, Williamson Science Education Fellows, Dept. of Geology & Geophysics, University of Utah	2023-present & 2020-2021

Department – Committees and Other Service

Dept. of Geology & Geophysics Undergraduate Affairs Committee	2025-present & 2020-2021
Dept. of Geology & Geophysics Curriculum & Strategic Enrollments Committee	2023-2025
Dept. of Geology & Geophysics Outreach & Recruiting Committee	2024-2025
Dept. of Geology & Geophysics Curriculum & Teaching Committee	2015-2023
Dept. of Geology & Geophysics Graduate Affairs Committee	2017-2018
Dept. of Biology Curriculum Revision facilitator	2016

College – Administrative Service

Director, STEM Initiatives (Includes Teach for Utah and Noyce Teacher Scholarship Programs), College of Education, University of Utah	2021-present
Director, Utah Pathways to STEM (UPSTEM), College of Science	2017-2024
Director, MS for Secondary School Teachers (MSSST), Center for Science and Mathematics Education, College of Science, University of Utah	2010-2024

Director, Student Success and Teacher Development, Center for Science and Mathematics Education, College of Science, University of Utah	2014-2022
Program Manager, Science and Math Education Programs, Center for Science and Mathematics Education, College of Science, University of Utah	2012-2014

College – Committees and Other Service

Chair, Steffensen Cannon Scholarship Committee, College of Education	2025-present
Teacher Education Marketing Campaign, College of Education	2025-present
Recruiting Committee, College of Education	2025-present
Scholarships and Admissions Committee, College of Education	2021-present
Utah Advisory Council for Teacher Education (UCATE), College of Education	2020-2021
Crocker Science Center Curriculum Development Team	2015-2018
Crocker Science Center Building Design Committee	2014-2017
Initiator, College of Science "SCI" designation	2016

University – Administrative Service

Director of Career-line Faculty Enhancement, Office for Faculty, University of Utah	2022-2025
Director of Practice, STEM Education Research Hub, Office of the Vice President for Research, University of Utah	2023-2024
Faculty Fellow, Office of the Vice President for Academic Affairs, University of Utah	2019-2020

University – Committees and Other Service

Co-Chair, Career-line Faculty Affairs Ad Hoc Committee, Office of Executive Vice President of Academic Affairs, University of Utah	2022-2025
University Interdisciplinary Teaching Programs Committee	2017-2023
Co-Chair, General Education Curriculum Committee (GECC)	2018-2022
General Education Brain Trust	2018-2022
EDI Strategy Council	2022
Search Committee for Senior AVP for Academics and Dean of Undergraduate Studies	2021
Committee for the Advancement of Inclusion and Diversity (CAID), College of Mines and Earth Science	2020-2021
Search Committee for VP of Enrollment	2019

Association of American Universities (AAU) STEM Liaison for University of Utah	2017-2019
Sustainability Education Advisory Committee	2016-2018

Community and Public Service

Facilitator, Earth and Environmental Science Degree Articulation with Salt Lake Community College	2022-2023
Facilitator, Salt Lake Community College Pre-Science Transfer Degree in Life Sciences	2018-2019
Utah State Board of Education Science Standards Writing Team	2018-2019 & 2014-2015
State Science Education Coordinating Committee Leadership Team	2015-2017
Science Advisor for UEN's Climate Literacy Partnership (http://www.uen.org/climate/index.php)	2009-2010
Science Advisor for the Utah Museum of Natural History's "Land" and "Lake" Observatories	2005-2010
Guest Scientist for KCPW's Midday Metro, Geoantiquities and the Beck Street Bench controversy with Salt Lake City Mayor Rocky Anderson and North Salt Lake Mayor Kay Briggs	2005
Scientist and advisor, "Geoantiquities" documentary film, produced by Earth Images Foundation	2005
Developer of Ice Age Teaching Kit for the Utah Geological Survey	2004

National Service

Reviewer, U.S. Dept. of Energy Albert Einstein Distinguished Educator Fellowship Program	2024-2025
Reviewer, NSF Improving Undergraduate STEM Education (IUSE) Program	2020
AAAS Committee on Best Practices of the NSF GK-12 program	2011-2012