

JULIE M. SEXTON, Ph.D.

Research Associate, Environmental Studies, University of Colorado Boulder

EDUCATION

- 2008 **Ph.D. in Education and Human Resource Studies with Specialization in Science Education.** School of Education. Colorado State University. Fort Collins, CO. NSF Doctoral Fellow with the Center for Teaching and Learning in the West. Dissertation: *Qualitative study of college students' conceptions of rivers.*
- 1998 **M.S. in Geology.** Department of Geosciences. Colorado State University. Fort Collins, CO. Thesis: *Historical changes in the Cache la Poudre River, Fort Collins, Colorado.*
- 1995 **B.A. in Geology.** Geology and Geography Department. Minor in Russian. Vassar College. Poughkeepsie, NY. Thesis: *Depositional mechanism of clastic sediments in Vassar College Glen, Poughkeepsie, New York.*

PROFESSIONAL EXPERIENCE

- 2019 – present **Research Associate.** Environment Studies Program. University of Colorado Boulder. Teach graduate seminar on inclusive pedagogy. Conduct discipline-based education research in geoscience and environmental studies. Conduct research on diversity, equity, and inclusion on science. Lead departmental initiatives related to diversity, equity, and inclusion. Position has graduate faculty status to allow for serving on doctoral and masters students committees.
- 2008 – 2019 **Positions at University of Northern Colorado. Greeley, CO.**
- 2012 – 2019 **Assistant Director.** Office of Assessment. Led faculty and staff professional development related to assessment of student learning at course, program, and institutional levels. Led team of faculty fellows to deliver faculty development programming related to assessment, teaching, learning, and diversity and inclusion at the course level. Led university initiatives to promote institutional change and improvement related to assessment of student learning. Conducted internal evaluation of institutional activities, needs, capacity, and challenges related to assessment of student learning. Conducted consultations with faculty and student affairs units to improve assessment activities. Wrote reports and gave presentations relate to work.
- 2011 – 2016 **Faculty Assessment Fellow.** College of Natural and Health Sciences. Acted as liaison between the College and the Office of Assessment. Collaborated with other assessment fellows to develop and teach university-wide faculty development assessment workshop program. Conducted education research to evaluate the impact of the faculty development program. Conducted individual and program-level consultations to improve assessment activities. Conducted listening tour to understand faculty needs.

- 2010, 2011, & 2017 **Adjunct Instructor.** Taught graduate courses including: Science Education Research For K-12 Teachers (2010 and 2011), Guided Study in Qualitative Research (2017).
- 2008 – 2019 **Research Associate (2008 – 2019). Interim Associate Director (2016 – 2017).** Mathematics and Science Teaching Institute. As research associate, seek external funding for science education grants. Collaborate with faculty on science education grants. Conduct science education research. Through one-on-one consultations and workshops, develop the capacity of science faculty and students to improve teaching and learning and to participate in science education grants and projects. As associate director, led team of faculty and staff to develop vision and mission for the Institute.
- 2008 – 2014 **Independent Consultant in Education Research and External Evaluation. Projects:**
- NSF PIRE Remote Sensing for Hazard Mitigation and Resource Protection in Pacific Latin America. Michigan Technological University, Houghton, MI. Role: External Evaluator. Dates: 2008–2014.
 - Engaging Faculty and Students in First Year Courses. University of Calgary. Calgary, Canada. Dates: 2009–2012. Role: Co-PI.
 - Evaluation of Learning Outcomes and Student Engagement Project. University of Calgary. Calgary, Canada. Role: Researcher. Dates: 2008–2012.
- 2006 – 2007 **Project Coordinator.** NSF Rocky Mountain Middle School Mathematics and Science Partnership Grant. University of Colorado Denver. Denver, CO. Coordinated logistics to run 30 graduate-level professional development courses for 300 middle school math and science teachers, 4 science and technology summer camps for middle and high school students, and after-school science programs for middle school students.
- 2005 – present **Independent Consultant in Faculty Professional Development.** Design and facilitate workshops for college faculty on how to conduct science education research. Workshops conducted at universities, annual meetings of professional organizations (e.g., Geological Society of America and Earth Educators' Rendezvous), and via webinar.
- 2005, Fall **Graduate Teaching Assistant.** School of Education. Colorado State University. Fort Collins, CO. Graduate course taught: Educational Policy.
- 2003 – 2005 **Doctoral Fellow, Science Teacher Professional Development.** NSF Center for Learning and Teaching in the West. Colorado State University, Fort Collins, CO.
- 2001 – 2003 **Program Officer.** Education and Outreach, Geological Society of America. Boulder, CO.
- 1999 – 2001 **Lecturer.** Burlington County College. Pemberton, NJ. Courses taught: Physical Science, Introductory Geology. Program development: Developed new Geospatial Technology Program including program curriculum and course requirements.
- 1998 – 1999 **Geologist.** Chevron USA Production Company. New Orleans, LA.

1996, Summer **Geologist.** Amoco Production Company. Denver, CO. Summer internship.
1995 – 1997 **Graduate Teaching Assistant.** Department of Geosciences. Colorado State University. Fort Collins, CO. Courses taught: Stratigraphy and Sedimentology Lab, Historical Geology Lab, Structural Geology Lab.

CURRENT RESEARCH PROJECTS

- Sexton, J. M., Jameson, M., Wenner, J. Investigation of how math skills and math anxiety interventions improve student success in geoscience classes.
- Sexton, J. M., Newman, H., Riggs, E., Hinerman, K. Investigation of how the social, cultural, educational, and identity factors associated with science fieldwork affect transitions from undergraduate education to graduate education or industry employment.
- Sexton, J. M., Pugh, K., Riggs, E., Newman, H., Bergstrom, C., Phillips, M. Investigation of the factors associated with the recruitment and retention of women in undergraduate geoscience programs. Research to understand intrinsic student factors and departmental practices associated with the recruitment and retention of undergraduate women.
- Holt, E., Sexton, J., Hinerman, K. Development of a science concept inventory to examine students' understanding of the biotic impacts of climate change. Research on novice and expert understanding of the biotic impacts of climate change. Research on the challenges faculty encounter teaching the biotic impacts of climate change.
- Sexton, J. Investigation of factors associated with recruitment and retention of students in environmental studies. Research to investigate the factors associated with the recruitment and retention of undergraduate students in environmental studies. The study will also investigate if those factors vary across student demographic characteristics.
- Davis, C., Hartman, H., Mendez, D., Mendez, J., Norton, T., Sexton, J., Turner, M. Facing COVID-19 at Home: An assessment of college persistence for First-Generation College Students. We are an interdisciplinary team of scholars of color, first generation college students, and members of underrepresented groups investigating the ways COVID-19 impacts college persistence for first-generation college students.

GRANTS

Current External Grants

- Title: Collaborative Research: How Science Fieldwork Experiences Impact Undergraduate Students' STEM Academic and Career Decisions (NSF), Role: Principal Investigator, Dates: 2018 – 2021, Amount: \$619,776 (Award # 1761190 and 1949614), \$321,435 (Award # 1760981), \$80,536 (Award# 1761174).
- Title: Math Skills and Affective Domain Interventions to Improve Success for Female Students in Geoscience Classes (NSF), Role: Principal Investigator, Dates: 2018 – 2021, Amount: \$287,225.
- Title: Developing the Environmental Literacy Concept Inventory (NSF), Role: Co-Principal Investigator, Dates: 2018 – 2021, Amount: \$299,976.

Prior External Grants

- Title: Collaborative Research: Recruitment and retention of women in geosciences: An investigation of individual and environmental factors (NSF), Role: Principal Investigator, Dates: 2012 – 2017, Amount: \$431,555.
- Title: Geosciences/environmental student curriculum & recruitment: Inviting diverse students to sustain their future (NSF), Role: Senior Personnel, Dates: 2015 – 2016, \$44,742.
- Title: Noyce Scholarship Program of Northern Colorado (NSF), Role: External Evaluator, Dates: 2010 – 2015, Amount: \$1,200,000.
- Title: PIRE Remote Sensing for Hazard Mitigation and Resource Protection in Pacific Latin America (NSF, Michigan Technological University, Houghton, MI), Role: External Evaluator, Dates: 2010 – 2014, Amount: \$10,400.
- Title: Strategies to Enhance Recruitment and Retention of Biology Majors at the University of Northern Colorado (NSF), Role: External Evaluator, Dates: 2010 – 2012, Amount: \$749,670.
- Title: Engaging Faculty and Students in First Year Courses Project (University of Calgary, Calgary, Canada), Role: Co-Investigator, Dates: 2009 – 2012, Amount: \$30,000.
- Title: Evaluation of Learning Outcomes and Student Engagement Project (University of Calgary, Canada), Role: Researcher, Dates: 2008 – 2012, Amount: \$13,200.

Internal Grants

- Title: Concepts and challenges in teaching and learning about climate change (University of Northern Colorado, Summer Support Initiative), Role: Co-Principal Investigator, Dates: Summer 2017, Amount: \$6,000.
- Title: The role of mathematics in undergraduate geoscience programs (University of Northern Colorado, Summer Support Initiative), Role: Principal Investigator, Dates: Summer 2016, Amount: \$6,000.
- Title: Investigating the impact of an assessment professional development program at UNC (University of Northern Colorado, Summer Support Initiative), Role: Co-Principal Investigator, Dates: Summer 2013, Amount: \$3,000.

PUBLICATIONS

Refereed

- Pugh, K. P., Phillips, M. M., Paek, S. H., **Sexton, J.**, Bergstrom, C., Flores, S., Riggs, E. M., (*forthcoming*) Predicting academic and career choice: The role of transformative experience, connection to instructor, and gender accounting for interest/identity and contextual factors. *Journal of Research in Science Teaching*.
- Sexton, J.**, Newman, H., Bergstrom, C., Pugh, K. P., Riggs E. (*forthcoming*). Multisite examination of sexist experiences encountered by undergraduate female geoscience students. *International Journal of Gender, Science and Technology*.
- Pugh, K. P., Phillips, M., **Sexton, J. M.**, Bergstrom, C., Riggs, E. (2019). A quantitative investigation of geoscience department factors associated with the recruitment and retention of undergraduate female students. *Journal of Geoscience Education* 67(3), 266-284.

- Sexton, J. M.**, Pugh, K. P., Bergstrom, C., and Riggs E. (2018). Reasons undergraduate students majored in geology across six universities: The importance of gender and department. *Journal of Geoscience Education*, 66(4), 319-336.
- Callahan, C.N., LaDue, N.D., Baber, L.D., **Sexton, J.**, van der Hoeven Kraft, K., Zamani-Gallaher, E.M. (2017). Theoretical perspectives on increasing recruitment and retention of underrepresented students in the geosciences. *Journal of Geoscience Education*, 65(4), 563-576.
- Ellis, L., Marston, C., Lightfoot, J. M., **Sexton, J.**, Byrnes, J., Ku, H.-Y., & Black, K. (2015, Winter). Faculty professional development in student learning assessment: The Assessment Leadership Institute, *Research & Practice in Assessment*, 10.
- Reid, L.F., **Sexton, J.**, Orsi, R. (2015). Outcomes of a faculty development program promoting scholarly teaching and student engagement at a large research-intensive university. *Journal of Faculty Development*, 29(3), 23-35.
- Sexton, J. M.**, OConnell, S., Banning, J., Most, D. (2014). Characteristics and culture of geoscience departments as interpreted from their website photographs. *Journal of Women and Minorities in Science and Engineering*. 20(3), 257–278.
- Sexton, J. M.** (2012). College students' conceptions of the role of rivers in canyon formation. *Journal of Geoscience Education*, 60, 168–178.
- Banning, J. H., **Sexton, J.**, Most, D. E., & Maier, S. (2007). Gender asymmetries encountered in the search and exploration of mining engineering program web sites: A portrayal of posture and roles. *Journal of Women and Minorities in Science and Engineering*, 13(2), 165-174.

In Review

- Fairchild, E., Newman, H., **Sexton, J.**, Pugh, K, Riggs, E. 'Not to be Stereotypical, but'. Exclusive and inclusive gendered discourses about geology field experiences.
- Holt, E., **Sexton, J.**, Hinerman, K., Dunk, R. The Biotic Impacts of Climate Change Core Concepts (BIC4) as a Guide for Climate Change Education.

In Preparation

- Holt, E., Heim, A., **Sexton, J.**, Hinerman, K. College students' conceptions of the impacts of climate change on animals.
- Newman, H., King, Z., **Sexton, J.**, Hinerman, K., Riggs, E. M. Missing sexism: Literature review of gender in Social Cognitive Career Theory, 1992-2018.
- Sexton, J.**, Fairchild, E., Newman, H., Riggs, E. M., Hinerman, K. University Title IX requirements have chilling effect on gender discrimination research: A call for more nuanced requirements for researchers.
- Sexton, J.**, Holt. E., Romano, A. Instructor teaching challenges related to climate change.

Other Publications

- Sexton, J.**, Jameson, M., Wenner, J., London, D., HopeHill, C. Promoting confidence in earth sciences: How do feelings and emotions affect your learning?
<https://serc.carleton.edu/dev/mathyouneed/confidenceES/index.html>. Accessed January 25, 2020.

- Sexton, J.**, Dauenhauer, B., Lightfoot, J., Sheehan, E., Welch, R., Wood, T. (May, 2019). *Extent to which institutional learning outcomes are taught and assessed across the University Northern Colorado*. Report prepared for the University of Northern Colorado Assessment Council, Greeley, CO.
- Sexton, J. M.** (2008). *A qualitative study of college students' conceptions of rivers*. Unpublished dissertation, Colorado State University, Fort Collins.
- Sexton, J. M.** (2003). What is GSA's GeoCorps Program? *GSA Today*, 13, p. 16-17.
- Sexton, J. M.** (2002). GeoCorps America™ participants reveal the geology of our national lands. *GSA Today*, 12, 45-47.
- Sexton, J. M.** (1998). *Historical changes in the Cache la Poudre River, Fort Collins, Colorado*. Unpublished Master's Thesis, Colorado State University, Fort Collins, CO.

SELECTED PRESENTATIONS

Conference Presentations

- Sexton, J.**, Fairchild, E., Newman, H., Hinerman, K., Riggs, E. (December, 2020). *Program Practices and Characteristics that Enable Sexism to Persist in Geology Field Programs*. American Geophysical Union Annual Meeting. Virtual/Online Conference.
- McKay, J., Riggs E., Fairchild, E., Hinerman, K., Newman, H., **Sexton, J.** (December, 2020). *Understanding the Impact of Transformative Experience on Undergraduates in Geologic Field Camps Through the Lens of Gender and Diversity*. American Geophysical Union Annual Meeting. Virtual/Online Conference.
- London, D., **Sexton, J.**, Jameson, M., HopeHill C., Wenner, J. (October, 2020). *Geoscience Success Lessons: Intervention for Introduction Geoscience Students to Develop Their Geoscience Interest*. Geological Society of America Annual Meeting. Virtual/Online Conference.
- Jameson, M., **Sexton, J.**, Wenner, J., London, D., HopeHill C. (October, 2020). *Geoscience Success Lessons: Creating a Psychologically Wise Intervention for Introductory Geoscience Students to Change Their Working Hypotheses on Learning*. Geological Society of America Annual Meeting. Virtual/Online Conference.
- Sexton, J.**, Fairchild, E., Newman, H., Hinerman, K., Riggs, E. (October, 2020). *Normalization of Sexism in Geology Field Programs*. Geological Society of America Annual Meeting. Virtual/Online Conference.
- Sexton, J.**, Fairchild, E., Newman, H., Hinerman, K., Riggs, E. (July, 2020). *Contextual and Cultural Practices that Normalize Sexism in Geology Field Programs*. Earth Educators' Rendezvous. Virtual/Online Conference.
- Riggs, E., McKay, J., Fairchild, E., Newman, H., Hinerman, K., **Sexton, J.** (July, 2020). *Exploring the Transformative Experience of Undergraduate Geologic Field Camps through the Lens of Gender and Diversity*. Earth Educators' Rendezvous. Virtual/Online Conference.
- Hinerman, K., McKay, J., **Sexton, J.**, Fairchild, E., Riggs, E., Newman, H. (July, 2020). *Capturing the Dynamics of Non-Traditional Educational Settings: Lessons Learned in Developing Instrumentation for Use in Field-Based Career Development Research*. Earth Educators' Rendezvous. Virtual/Online Conference.
- Jameson, M. M., **Sexton, J. M.**, Wenner, J. M., London, D. L., & HopeHill, C. M. (July, 2020). *Geoscience Success Lessons: Creating a Psychologically Wise Intervention for*

- Introductory Geoscience Students to Change Their Working Hypotheses on Learning.* Earth Educators' Rendezvous. Virtual/Online Conference.
- HopeHill, C. M., Jameson, M. M., **Sexton, J. M.**, London, D. L., Wenner, J. M. (July, 2020). *Geoscience Success Lessons: Short Interventions to Improve Student Success in Introductory Geology Labs.* Earth Educators' Rendezvous. Online Conference
- London, D. L., **Sexton, J. M.**, Jameson, M. M., HopeHill, C. M., Wenner, J. M. (July, 2020). *Geoscience Success Lessons: Instructional Intervention to Explore Introductory Geology Students' Interest Development.* Earth Educators' Rendezvous. Virtual/Online Conference.
- Jameson, M. M., **Sexton, J. M.**, Wenner, J. M., London, D. L., & HopeHill, C. M. (May, 2020). *Creating a Psychologically Wise Intervention for Geoscience Students: Changing Their Working Hypotheses on Learning.* Association for Psychological Science Annual Convention. Virtual/Online Conference.
- HopeHill, C. M., Jameson, M. M., **Sexton, J. M.**, London, D. L., Wenner, J. M. (May, 2020). *Increasing Female Students' Math Affect through Math Skill and Affect Interventions for Geoscience Students.* Association for Psychological Science Annual Convention. Virtual/Online Conference.
- Holt, E., **Sexton, J.** Hinerman, K. (January, 2020). *Students' conceptions of the impacts of climate change on animals across ecosystems.* Society for the Advancement of Biology Education Research West Annual Meeting, Irvine, CA.
- Newman, H., King, Z., **Sexton, J.**, Hinerman, K., Riggs, E. (October, 2019). *Missing Gender: Literature Review of Social Cognitive Career Theory.* Southwestern Social Science Association Annual Meeting, San Diego, CA.
- Sexton, J.**, Lightfoot, J. M. (presenter), Dauenhauer, B., Sheehan, E., Welch, R., Wood, T. (July, 2019). *A technique to map and evaluate fulfillment of institutional learning outcomes.* 26th International Conference on Learning, Common Ground Research Networks, Belfast, UK.
- Holt, E.A., **Sexton, J.**, Hinerman, K., Romano, A., Heim, A. (July, 2019). *Expert and novice conceptions of the biotic impacts of climate change.* Society for the Advancement of Biology Education Researchers Conference, Minneapolis, MN.
- LaDue, N.D., Callahan, C.N., Baber, L.D., **Sexton, J.**, van der Hoeven Kraft, K., and Zamani-Gallaher, E.M. (2017, October). *Applying theoretical frameworks to the recruitment and retention of underrepresented students in the geosciences.* Invited Presentation. Presented at the Geological Society of America annual conference, Seattle, WA.
- Sexton, J.**, Black, K., Haberman, A., Jameson, M., Packard, J. (September, 2017). *Jumpstarting general education assessment: A model for collaboration between faculty and administration.* Presented at the Association for General and Liberal Studies Annual Conference, Memphis, TN.
- Sexton, J. M.**, Newman, H., Bergstrom, C., Pugh, K., Riggs, E., Phillips, M. (September, 2016). *Mixed methods study to investigate sexist experiences encountered by undergraduate geoscience students.* Presented at the Geological Society of America Annual Meeting, Denver, CO.
- Sexton, J. M.**, Bergstrom, C., Newman, H., Parmley, Riggs, E., Pugh, K., (2016, May). *Multisite examination of sexist experiences encountered by undergraduate geoscience students.*

- Presented at the 2016 NSF ADVANCE/GSE Program Workshop: Research, Interventions, Impact, Baltimore, MD.
- Sexton, J. M.**, Pugh, K., Phillips, M., Bergstrom, C., & Riggs, E., (2016, May). *Factors predicting the recruitment and retention of women in the geosciences*. Presented at the 2016 NSF ADVANCE/GSE Program Workshop: Research, Interventions, Impact, Baltimore, MD.
- Pugh, K., Phillips, M., **Sexton, J. M.**, Bergstrom, C., Riggs, E., & Flores, S. (2016, April). *Motivational and classroom predictors of academic and career choice in the geosciences*. Presented at the American Educational Research Association Annual Conference, Washington D.C.
- Petcovic, H., & **Sexton, J.** (November, 2015). *Mixed up about mixed methods? An overview of mixed methods research designs*. Presented at the Geological Society of America Annual Meeting, Baltimore, MD.
- Sexton, J.** (November, 2015). *Overview of the research methods used by geoscience education researchers*. Invited Presentation. Presented at the Geological Society of America annual conference, Baltimore, MD.
- Ku, H.-Y., **Sexton, J.**, Ellis, L., Marston, C., Lightfoot, Byrnes, J., J. M., Black, K. (2015, October). *Engaging faculty to be assessment leaders*. Presented at the annual Assessment Institute, Indianapolis, Indiana.
- Sexton, J.**, Ellis, L., Ku, H.-Y., Marston, C., Lightfoot, J. M., Byrnes, J., Black, K., (2015, October). *The Assessment Leadership Institute: An evidence-based professional development model to improve faculty skills, knowledge, and attitudes*. Presented at the annual Assessment Institute, Indianapolis, Indiana.
- Sexton, J. M.**, Riggs, E., Pugh, K., Bergstrom, C., Parmley, R., & Phillips, M. (2015, July). *Gender in the geosciences: factors supporting the recruitment and retention of women in the undergraduate major*. Presented at the first annual Earth Educators' Rendezvous, Boulder, CO.
- Sexton, J. M.**, Riggs, E., Pugh, K., Bergstrom, C., Parmley, R., & Phillips, M. (2015, May). *Factors Supporting the Recruitment and Retention of Women in Undergraduate Geoscience Majors*. Poster Presentation and Lightning Talk given at the 2015 NSF ADVANCE/GSE Workshop, Baltimore, MD.
- Pugh, K. J., Phillips, M. M., **Sexton, J.**, Bergstrom, C. M., & Riggs, E. M. (2015, April). *Predicting transformative experience: The role of the student-teacher dynamic*. Presented at the American Educational Research Association annual conference, Chicago, IL.
- Pugh, K. J., Phillips, M. M., **Sexton, J.**, Bergstrom, C. M., & Riggs, E. M. (2015, April). *Academic and career choice: Investigating the roles of motivation, institution, relationships, transformative experience, and gender*. Presented at the American Educational Research Association annual conference, Chicago, IL.
- Riggs, E.M., **Sexton, J.M.**, Pugh, K., Bergstrom, C., Parmley, R. & Phillips, M. (2014, December). *Gender in the Geosciences: Factors Supporting the Recruitment and Retention of Women in the Undergraduate Major*. Presented at the American Geophysical Union fall meeting, San Francisco, CA.
- Pugh, K. J., Phillips, M. P., Bergstrom, C., **Sexton, J. M.**, & Riggs, E. (2014, October). *Gender in the geosciences: Factors related to academic and career choice*. Presented at the Geological Society of America annual meeting, Vancouver, BC, Canada.

- Pugh, K. J., Phillips, M. P., Bergstrom, C., **Sexton, J. M.**, & Riggs, E. (2014, October). *Supporting transformative learning in the geosciences: Investigating the relation between the teacher-student dynamic and transformative experiences*. Presented at the Geological Society of America annual meeting, Vancouver, BC, CA.
- Sexton, J. M.**, Bergstrom, C., Parmley, R., Riggs, E., & Pugh, K. J. (2014, October). *Gender in the geosciences: Departmental gender-equity culture and the recruitment and retention of female undergraduate students*. Presented at the Geological Society of America annual meeting, Vancouver, BC, Canada.
- Sexton, J. M.**, Bergstrom, C., Parmley, R., Riggs, E., & Pugh, K. J. (2014, October). *Gender in the geosciences: Model of departmental practices associated with the recruitment and retention of female undergraduate students*. Presented at the Geological Society of America annual meeting, Vancouver, BC, Canada.
- Pugh, K., Phillips, M., Bergstrom, C., **Sexton, J.**, Riggs, E. (2014, April). *Motivation, Instructor-Student Relationship, and Transformative Experience as Predictors of Academic and Career Choice in Geoscience*. Presented at the American Educational Research Association Annual Conference, Philadelphia, PA.
- Bergstrom, C., **Sexton, J. M.**, Parmley, R., Riggs, E., Pugh, K. (2013, October). *Gender in the geosciences: What students like and dislike about courses and faculty*. Presented at the Annual Meeting of the Geological Society of America, Denver, CO.
- Parmley, R., **Sexton, J. M.**, Bergstrom, C., Riggs, E., Pugh, K., (2013, October). *Gender in the geosciences: Experiences of female and male students in two geoscience departments*. Presented at the Annual Meeting of the Geological Society of America, Denver, CO.
- Sexton, J. M.**, Bergstrom, C., Parmley, R., Riggs, E., Pugh, K., and Phillips, M. (2013, October). *Gender in the geosciences: What attracts students to a geoscience major?* Presented at the annual meeting of the Geological Society of America, Denver, CO.
- Sexton, J. M.**, Bergstrom, C., Parmley, R., Riggs, E., Pugh, K., and Phillips, M. (2013, October). *Gender in the geosciences: What attracts students to a geoscience major?* Presented at the Annual Meeting of the Geological Society of America, Denver, CO.
- Sexton, J.M.** (2012). *What do geoscience department website photographs communicate about diversity?* Presented at the annual meeting of the Geological Society of America, Charlotte, NC.
- Reid, L.F., **Sexton, J.M.**, Cannon, S. (2012). *Helping faculty push past barriers in teaching: a discussion of faculty development program models and outcomes*. Presented at the annual meeting of the Society for Teaching and Learning in Higher Education, Montreal, Quebec.
- Sexton, J.M.**, Reid, L.F., Cannon, S. (2012, June). *Changing teaching beliefs and practices despite internal and external barriers*. Presented at the annual meeting of the Society for Teaching and Learning in Higher Education, Montreal, Quebec.
- Sexton, J. M.**, Reid, L. F., Dokter, E., (2010, October). *Metaevaluation model for assessing evaluations of professional development programs*. Presented at the annual meeting of the American Evaluation Association, San Antonio, TX.

Other Presentations

- Sexton, J.**, Fairchild, E., Newman, H., Hinerman, K., Riggs, E. (September, 2020). *Normalization of sexism in geology field programs and the program characteristics that enable sexism to persist*. Invited presentation to the Environmental Studies Colloquium. Environmental Studies Program, University of Colorado Boulder.
- Sexton, J.**, Newman, H., Riggs, E., Pugh, K., Bergstrom, C. (December, 2019). *Role of departmental practices and sexist climate in recruitment and retention of female undergraduate geoscience students*. Invited presentation for the monthly meeting of the Womxn's Network at the University of Colorado Boulder.
- Sexton, J.**, Dauenhauer, B., Lightfoot, J., Sheehan, E., Welch, R., Wood, T. (May, 2019). *Determining extent to which institutional learning outcomes are taught and assessed across the University Northern Colorado*. Presentation to the University of Northern Colorado Assessment Council, Greeley, CO.
- Jameson, M., **Sexton, J.** (2017, April). *"Math Sucks!": The role of mathematics in undergraduate geoscience programs*. Presented at the University of Northern Colorado annual Academic Excellence Week conference, Greeley, CO.
- Sexton, J.** (2017, February). *Women scientist panel*. Invited presentation. Hosted by Association for Women Geoscientists and University of Northern Colorado Earth and Atmospheric Sciences Department. Presented at the University of Northern Colorado Earth and Atmospheric Sciences Department Seminary series, Greeley, CO.
- Sexton, J. M.**, Pugh, K., Riggs, E., Bergstrom, C., Parmley, R., & Phillips, M. (2015, April). *Factors supporting the recruitment and retention of students into geoscience*. Invited Presentation given to PIs, senior personnel, graduate students, and post-doctoral research associates associated with the recently funded "NSF IUSE Grant: Improving the recruitment and persistence of women in the geosciences" at Colorado State University, Fort Collins, CO.
- Sexton, J. M.**, Pugh, K., Bergstrom, C., Riggs, E., Parmley, R., & Phillips, M. (2015, March). *Factors associated with the recruitment and retention of students into geoscience*. Invited presentation. Presentation given for the Colorado State University Department of Geosciences Seminar, Fort Collins, CO.
- Sexton, J. M.**, Pugh, K., Bergstrom, C., Riggs, E., Parmley, R., & Phillips, M. (2014, November). *Factors Associated with the Recruitment and Retention of Students into Geoscience*. Invited presentation. Presentation given for the University of Northern Colorado Department of Earth and Atmospheric Sciences Seminar, Greeley, CO.
- Riggs, E., **Sexton, J. M.**, Pugh, K., Bergstrom, C., Parmley, R., and Phillips, M. (2014, May). *Gender in the Geosciences: Influences on Recruitment and Retention of Women in the Geosciences*. Presentation given at the Supporting and Advancing Geoscience Education in Two-Year Colleges, Texas 2014 Supporting Student Success Workshop, Austin, TX.
- Sexton, J. M.**, Pugh, K., Bergstrom, C., Parmley, R., Phillips, M., Riggs, E. (2014, February). *What attracts students to a geoscience major?* Invited presentation. Presentation given for the University of Northern Colorado Earth and Atmospheric Sciences Departmental Seminar, Greeley, CO.

TEACHING: UNIVERSITY COURSES

Undergraduate Courses: Physical Science (Burlington County College), Introductory Geology Lecture and Lab (Burlington County College), Sedimentology and Stratigraphy Lab (Colorado State University), Historical Geology Lab (Colorado State University), Structural Geology Lab (Colorado State University).

Graduate Courses: Graduate Seminar on Inclusive Pedagogy (University of Colorado Boulder), Independent Study in Discipline-Based Education Research (University of Colorado Boulder), Science Education Research Methods For K-12 Teachers (University of Northern Colorado), Directed Study in Qualitative Research (University of Northern Colorado), Education Policy Analysis (Colorado State University).

TEACHING: FACULTY AND STAFF DEVELOPMENT WORKSHOPS

Improving Teaching and Learning

- **Sexton, J.**, Jameson, M. (2018-2019). *Faculty Learning Community: How Learning Works*. Academic year long faculty learning community with cohort of faculty teaching and assessment fellows. University of Northern Colorado.
- **Sexton, J.** (2014, March 2017, July 2017). *Conducting Focus Group Interviews Workshop*. Two-hour version for faculty and graduate student. Five-workshop series (14 hours) for student affairs staff. Workshops occurred at the University of Northern Colorado.
- Reid, L., **Sexton, J.** (2010-2011, 2011-2012). *Project Engage*. Sixteen-month professional development program for university faculty on integrating research on student learning into teaching, increasing student engagement, and designing course curriculum. Program occurred at the University of Calgary.
- Cochran, K., Pugh, K., Reinsvold, R., **Sexton, J.**, Shellito, L. (2010). *How students learn in science*. Two, two-hour workshops for science faculty on research related to how students learn in science and the teaching implications related to the research findings. Workshop occurred at the University of Northern Colorado.

Program-Level Assessment of Student Learning and Curriculum Design

- **Sexton, J.** (2019). *Assessment and Student Learning Outcomes Workshop*. Workshop for the Environmental Studies Program faculty on developing student learning outcomes. Workshop occurred at the University of Colorado Boulder.
- **Sexton, J.**, Datterri-Saboski, E. (2019). *Program-Level Assessment Workshop Series for Student Affairs*. Invited workshop series for the new university student affairs division. Workshop series focused on developing mission and vision statements and student learning outcomes. Workshop occurred at the University of Northern Colorado.
- **Sexton, J.**, Datterri-Saboski, E. (2019). *Program-Level Assessment Workshop Series for Student Services*. Workshop series on how to develop an assessment of student learning plan for student service units. Workshop occurred at the University of Northern Colorado.
- **Sexton, J.** (August 2017). *Developing an Assessment of Student Learning Plan*. Workshop on how to develop an assessment of student learning plan for student affairs units. Workshop occurred at the University of Northern Colorado.

- **Sexton, J.** (2012, 2013, 2014, 2015, 2017, 2018). *Methods for assessing program-level student learning*. Workshop for faculty and staff on the types of methods to assess student learning. Workshop occurred at the University of Northern Colorado.
- Black, K., Byrnes, J., Ellis, L., Ku, H.-Y., Lightfoot, J. M., Marston, C., **Sexton, J.** (2012-2014, 2013-2015, 2014-2016). *Assessment Leadership Institute*. Two-year, seven-workshop institute for faculty wanting to improve program-level assessment of student learning. Workshop occurred at the University of Northern Colorado.

Science Education Research Methods

- **Sexton, J.** (2017, October). *Introduction to Geoscience Education Research Methods*. Invited webinar hosted by the National Association for Geoscience Teachers' Geoscience Education Research Division. Webinar for geoscience faculty and graduate students wanting to learn discipline-based education research methods.
- **Sexton, J.** (2015, 2017). *Education Research Methods*. Workshop for geoscience faculty and graduate students wanting to learn discipline-based education research methods. Invited workshop at the Earth Educators' Rendezvous, Boulder, CO; Albuquerque, NM.
- **Sexton, J.** (2008, 2009, 2010, 2011, 2012). *Education Research I: Conducting Qualitative and Quantitative Science Education Research. Education Research II: Conducting Quantitative Geoscience Education Research*. Workshops for geoscience faculty and graduate students wanting to learn discipline-based education research methods. Workshops occurred at the annual meeting of the Geological Society of America, Houston, TX; Portland, OR; Denver, CO; Minneapolis MN; Charlotte, NC.

Building Diversity Awareness

- **Sexton, J., Shellito, C.,** (2016). *Building Diversity Awareness to Promote Student Success: A Workshop for Science faculty*. Workshop occurred at the University of Northern Colorado for natural and health sciences faculty wanting to increase awareness about diversity and improve department practices.

AWARDS AND RECOGNITION

2016	Journal of Geoscience Education Outstanding Reviewer Award. Award recognizes those who provide reviews of exceptional quality, completed reviews more quickly than average, and/or completed more reviews than average.
2016	Recognition of Contribution. Awarded recognition for contribution to improving teaching and learning as a Faculty Assessment Fellow at the University of Northern Colorado from 2011 to 2016.
2016	Certificate of Appreciation. Recognition of presentation given at the 2016 University of Northern Colorado Assessment Fair.
2006	Invited Participant. NSF Geoscience Education and Public Outreach Network Workshop. Selected as invited participant to represent the growing community of geoscience education researchers.
2003 – 2005	Doctoral Fellowship. NSF Center for Learning and Teaching in the West. Colorado State University.

SERVICE

Professional

- 2020 **Reviewer.** National Science Foundation grant proposals, Division of Undergraduate Education
- 2019 **Participant.** Invited participant to the Geoscience Education Infrastructure Planning Meeting. Participants were charged with exploring the ways in which community infrastructure supports the advancement of geoscience education and to develop a set of recommendations for future infrastructure needs. Meeting organized by the Science Education Resource Center. Carleton College, Northfield, MN.
- 2019 – present **Committee member.** Diversity and Inclusion Advisory Committee with the American Geophysical Union.
- 2018 **Reviewer.** National Science Foundation grant proposals, Geosciences Directorate.
- 2018 **Reviewer.** National Science Foundation grant proposals, Division of Undergraduate Education.
- 2017 – 2018 **Program Planning Committee Member.** Earth Educators' Rendezvous 2018.
- 2016 – present **Advisory Board Member.** National Science Foundation project: Geoscience Education Transdisciplinary Spatial Learning Network.
- 2016 **Advisory Board Member.** National Science Foundation IUSE project: Promoting Geoscience Research Education and Success.
- 2015 **Invited Participant.** NSF Geo-Needs Focus Group Meetings. Invited expert on geoscience education research and diversity and equity in geoscience. Meeting goal was to identify enduring questions about the recruitment, retention, education, and workforce preparation of underrepresented students.
- 2005 – present **Journal Manuscript Reviewer.**
- Journal of Geoscience Education (2005 – present, ad hoc).
 - GSA Today (2016).
 - International Journal of Environmental Research and Public Health (2014).

University/Department

- 2020 – present **Co-Leader of Curriculum Working Group.** Departmental Justice, Equity, Diversity, Inclusivity Committee.
- 2019 – present **Member.** Departmental Justice, Equity, Diversity, Inclusivity Committee.
- 2019 – present **Member.** Environmental Studies Undergraduate Curriculum Committee.
- 2019 – present **Member.** Environmental Systems Major Working Group.
- 2019 **Chair.** Postdoctoral Research Associate Search Committee.
- 2017 **Member.** Postdoctoral Research Associate Search Committee.
- 2016 – 2017 **Chair.** MAST Institute Vision & Mission Development Committee.
- 2016 **Member.** Director of MAST Institute Search Committee.
- 2015 **Member.** Assessment Data Analyst Search Committee.

2012 – 2019 **Member.** University Assessment Council.

Community

2009 – 2019 **Judge.** Longs Peak Science and Engineering Fair.

2015 – 2019 **Volunteer.** Frontiers of Science Institute instructional staff search committee.
Occurs annually.

1997 – 2008 **Admissions Interviewer.** Vassar College. Interview applicants to the freshman class. Represent Vassar College at local college fairs.

PROFESSIONAL MEMBERSHIPS

- American Geophysical Union
- Association for Women Geoscientists
- Geological Society of America
- National Association of Geoscience Teachers
- Professional and Organizational Development Network in Higher Education

CERTIFICATION AND TRAINING

2019 **Vicarious Trauma Training.** Training provided for social science research team conducting research on sexism and social climate.

2017 **Mental Health First Aid.** National Council for Community Behavioral Healthcare.

2016 **Safe Zone Training.** University of Northern Colorado.

2016 **Active Shooter Training.** University of Northern Colorado.

2011 **Assessment 101.** Indianapolis, IN. Introduction to academic assessment.

2009 **Professional Learning Communities in Science: Designs, Tools, and Resources for Improving Student Learning Summer Institute.** Orlando, FL.
National Science Teachers Association Summer Institute

2008 **Navigating the Waters of Evaluation Consulting Contracts Workshop.** Denver, CO. Professional development workshop at the Annual Conference of the American Evaluation Association.

2008 **Mixed Methods for Program Evaluation Workshop.** Denver, CO. Professional development workshop conducted at the Annual Conference of the American Evaluation Association.

2008 **Conflict Resolution Skills for Evaluators Workshop.** Denver, CO. Professional development workshop conducted at the Annual Conference of the American Evaluation Association.