

Judith K. Turk PhD – Curriculum Vitae

Conservation and Survey Division
School of Natural Resources
University of Nebraska-Lincoln
P. O. Box 830996
Lincoln, NE 68583-0996

EDUCATION

- Ph.D., Soil and Water Sciences, University of California, Riverside, CA, Mar. 2012
 - Dissertation: Vesicular Horizon Distribution, Properties, and Pedogenic Processes in Deserts of the Western United States
- M.S., Soil and Water Sciences, University of California, Riverside, CA, June 2007
 - Thesis: Soil Development in a Forested Debris Flow Chronosequence in Southern California
- B.S., Biology, University of Maryland, College Park, MD, May 2004, *cum laude*

ACADEMIC APPOINTMENTS

- Pedologist/Assistant Professor, Conservation and Survey Division, School of Natural Resources, University of Nebraska, Lincoln, Jul. 2017-Present.
- Assistant Professor of Environmental Science/Soil Science, School of Natural Sciences and Mathematics, Stockton University, Sept. 2012-Jun. 2017.
- Post Doctoral Fellow, Division of Plant and Soil Sciences, National Geospatial Development Center (NGDC), Davis College of Agriculture, Natural Resources and Design, West Virginia University, Morgantown, WV, Apr.-Jul. 2012.

PUBLICATIONS

Peer Reviewed Journal Articles

- **Turk, J. K.**, and R.C. Graham. 2020. Disturbance impacts on porosity and hydraulic properties of vesicular horizons. *Soil Science Society of America Journal*, 84(2), 543-555. doi:10.1002/saj2.20055
- **Turk, J. K.** and R.A. Young. 2020. Field conditions and the accuracy of visually determined Munsell soil color. *Soil Sci. Soc. Am. J.* 2020; 84: 163– 169. <https://doi.org/10.1002/saj2.20023>
- **Turk, J. K.** 2016. The development and evaluation of lecture tutorials for introductory soil science. *Natural Sciences Education* 45. doi:10.4195/nse2016.0002
- **Turk, J.K.**, and R.C. Graham. 2014. Analysis of vesicular porosity in soils using high-resolution X-ray computed tomography. *Soil Science Society of America Journal* 78: 868-880.
- **Turk, J.K.**, and R.C. Graham. 2011. Distribution and properties of vesicular horizons in the western United States. *Soil Science Society of America Journal* 75: 1436-1448.
- **Turk, J.K.**, and R.C. Graham. 2009. Soil carbon and nitrogen accumulation in a forested debris flow chronosequence, California. *Soil Science Society of America Journal* 73:1504-1509.
- **Turk, J.K.**, B.R. Goforth, R.C. Graham, and K.J. Kendrick. 2008. Soil morphology of a debris flow chronosequence in a coniferous forest, southern California, USA. *Geoderma* 146:157-165.

Book Chapters

- **Turk, J.K.**, O.A. Chadwick, and R.C. Graham. 2011. Pedogenic Processes. *In* P.M. Huang et al. (eds.) Handbook of Soil Science. CRC Press, Boca Raton, FL.

Articles by Undergraduate Research Students Advisees

- Lindsay, A. 2017. Organic Carbon Analysis of Charcoal-Enriched Soils at Catoctin Mountain Park, MD. *Natural Sciences Education* 46. doi:10.4195/nse2017.01.0101
- Hesson, K. 2016. Charcoal Hearth Soils: Remnants of the Iron Industry in the Northeastern U. S.. *Natural Sciences Education* 45. doi:10.4195/nse2016.02.0771

GRANTS

External Grants

- USDA Cooperative Agreement. The relationship between color and organic carbon in Nebraska soils, 2020-2022 (\$88,557.00)
- USDA Cooperative Agreement. Analysis of clay illuviation processes in depressional soils in the Todd Valley, eastern Nebraska, 2018-2020 (\$133,333)
- USDA Cooperative Agreement Subcontract through Purdue University. Completion of the Isee Databases for the North Central Region, 2017-2018 (\$8,921)
- USDA Grant (co-I with Paul Hanson). Soil Laboratory and Scanning, 2015-2018 (\$87,000).
- National Science Foundation Doctoral Dissertation Improvement Grant. Vesicular soil horizons - the fragile skin of desert soils: Their distribution, formation processes, and relation to surface hydrology in the western U.S.A., 2011-2012 (\$14,962)
- USDA Soil Survey Research Grant. Vesicular horizon function in the arid western United States: hydrogeology and recovery from disturbance, 2009-2011(\$40,000)

Internal Grants

- CTT Small Grants: Pedagogic Intervention. Course-based Undergraduate Research Experience on Color-Corrective Lenses and the Perception of Soil Color (\$867).
- IANR Travel Funds. Soils across latitude: 2018-2019 International Soils Meeting, 2019 (\$500)
- Research Experience for Undergraduates (REU) Award with Andrew Lindsay and Charles Lugg, 2016 (\$1,950)
- Provost opportunity funds. Agronomy Society of America-Crop Science Society of America-Soil Science Society of America 2015 International Annual Meetings, 2015 (\$627).
- Research Experience for Undergraduates (REU) Award with Kevin Hesson, 2015 (\$261)
- Research and Professional Development Grant. Soil geomorphology of forested lands historically managed for charcoal production, 2015. (\$5,800)
- Research and Professional Development Grant. Soil quality and carbon sequestration at 18th-19th century charcoal burning sites in New Jersey, 2014-2015. (\$5,800)
- Research and Professional Development Grant. Digital mapping of organic carbon in soils of the northeastern United States, 2013-2014 (\$5,400)
- Junior Faculty Award Program, 2012-2014 (\$2,370 in total)
- UCR Environmental Sciences mini-GSA Travel Grants, 2007-2011 (\$3,000 in total)
- UCR Graduate Student Association Conference Travel Grants, 2007-2010 (\$1,440 in total)

*PRESENTATIONS (*Presenting Author)*

Invited Research Presentations

- **Turk, J.K.** Conservation and Survey Division Pedology Research. Nebraska Cooperative Soil Survey Meeting. Lincoln, NE. 20 Sept. 2019.
- **Turk, J.K.** Analysis of particles and voids in soil. Environmental and Water Resources Engineering Graduate Seminar. University of Nebraska, Lincoln. 16 Feb. 2018.
- **Turk, J.K.** Pedology research at UNL. Nebraska Society of Professional Soil Scientists Research Symposium. University of Nebraska, Lincoln. 2 Feb. 2018.
- **Turk, J.K.** The pedagogy of pedology. Geography and Atmospheric Science/Geology Joint Colloquium. University of Kansas, Lawrence, KS. 19 Jan. 2018.
- **Turk, J.K.** Soil science at Stockton University. NJ-NYC Soil Science Workshop. Rutgers Cook Campus, New Brunswick, NJ. 9 Jun. 2016.
- **Turk, J.K.*** Soil response to charcoal burning: Soil health and carbon sequestration in charcoal hearths associated with the 18th-19th century iron industry. Mid-Atlantic Association of Professional Soil Scientists Field Day. Cunningham Falls State Park, Thurmont, MD. 13 Nov. 2015.
- **Turk, J.K.*** Bubbles in the Dust: The Vesicular Horizon of Desert Soils. Environmental Science Department Seminar. Rutgers University, New Brunswick, NJ. 9 May 2014.
- **Turk, J.K.*** The vesicular soil horizon: A critical component of arid ecosystems. National Soil Survey Center Webinar. Online. 19 Dec. 2012.
- **Turk, J.K.*** The fragile skin of desert soils: Vesicular horizon formation, distribution, and hydrologic function in arid lands. Soil Science Department Seminar. University of Wisconsin, Madison, WI. 14 Sept. 2011.
- **Turk, J.K.***, and R.C. Graham. Vesicular horizons of the western United States: Hydropedology and recovery from disturbance. National Cooperative Soil Science Conference, Asheville, NC. 22-26 May 2011.
- **Turk, J.K.***, C.A. Houdeshell, and R.C. Graham. A proposed master V horizon for near surface horizons with vesicular porosity. WRCSS Conference in conjunction with the WSSS and WSCS, Las Vegas, NV. 21-24 June 2010.
- **Turk, J.K.*** and R.C. Graham. Processes of vesicular horizon formation. Mojave National Preserve Soils Scoping Session, Barstow, CA. 16-17 June 2009.
- **Turk, J.K.*** and R.C. Graham. Distribution and properties of vesicular horizons in the western United States. NRCS Field Office, Victorville, CA. 10 Feb. 2009.

Volunteered Research Presentations

- **Turk, J.K.***, R.A. Young, and N. Musgrave. How to Calibrate Your Fingers: A Guide to Improving Field Estimates of Soil Texture. ASA-CSSA-SSSA International Annual Meeting, San Antonio, TX. 10-13 Nov. 2019.
- Petersen, B.*, N. Strand, **J.K. Turk**, and R.A. Young. The Effect of Lighting Conditions on Visual Determination of Soil Color. Nebraska Society of Professional Soil Scientists Research Symposium. University of Nebraska, Lincoln. 8 Mar. 2019.

- **Turk, J.K.**, R. Young, S. Salley, and A. Dere. An Alternative Method for Teaching Field Determination of Soil Texture. Soil Science Society of America International Soils Meeting, San Diego, CA. 6-9 Jan. 2019.
- Kemper, A. G.* and **J.K. Turk**. Observation of Common Field Soil Texture Methods By Video Analysis. Soil Science Society of America International Soils Meeting, San Diego, CA. 6-9 Jan. 2019.
- **Turk, J.K.*** and R. Young. Improving of student accuracy at determining soil texture by feel. Earth Educators Rendezvous. University of Kansas, Lawrence, KS. 16-20 Jul. 2018.
- Miller, B.* , D. Schulze, J. Crum, D. Hopkins, N. Jelinski, D. Malo, P. Quackenbush, M. Ransom, **J. Turk**, and The Isee Network. Soil Explorer – Impressive Interpretations from the USA Soil Survey Maps. European Geosciences Union General Assembly 2018. Vienna, Austria 8-13 Apr. 2018.
- Rosas, Y.* and **J.K. Turk**. Rainfall and formation of vesicular pores. Weatherfest 2018. Lincoln, NE 7 Apr. 2018.
- Davis, A.* and **J.K. Turk**. Porosity formation in disturbed V horizons: A comparison across three desert ecoregions. Nebraska Society of Professional Soil Scientists Research Symposium. University of Nebraska, Lincoln. 2 Feb. 2018.
- Musgrave, N.* and **J.K. Turk**. A visual guide for estimating sand percentage in the field. Nebraska Society of Professional Soil Scientists Research Symposium. University of Nebraska, Lincoln. 2 Feb. 2018.
- Lindsay, A.* and **J.K. Turk**. Organic Carbon and Cation Exchange Capacity of Charcoal-Enriched Soils at Catoctin Mountain Park, MD. ASA-CSSA-SSSA International Annual Meeting, Phoenix, AZ. 6-9 Nov. 2016.
- Lugg, C.* and **J.K. Turk**. Effects of Historic Addition of Charcoal on Soil Respiration in Catoctin Mountain Park, MD. ASA-CSSA-SSSA International Annual Meeting, Phoenix, AZ. 6-9 Nov. 2016.
- Moore, B.* , **J.K. Turk**, and R.C. Graham. Plasticity index of vesicular horizons. ASA-CSSA-SSSA International Annual Meeting, Phoenix, AZ. 6-9 Nov. 2016.
- Witt, E.* , C. Tredick, and **J.K. Turk**. Improving faculty effectiveness in undergraduate research: Lessons from the Stockton University Undergraduate Research Teaching Circle. Biennial Conference on University Education in Natural Resources, Stevens Point, WI. 25-27 Feb. 2016.
- **Turk, J.K.*** Applying lecture tutorials in the introductory soil science classroom. ASA-CSSA-SSSA International Annual Meeting, Minneapolis, MN. 15-18 Nov. 2015.
- Hesson, K.* (undergraduate advisee) Charcoal Amendments: An analysis of soils from historic charcoaling sites. ASA-CSSA-SSSA International Annual Meeting, Minneapolis, MN. 15-18 Nov. 2015.
- **Turk, J.K.*** and R.C. Graham. The distribution and properties of V horizons. National Cooperative Soil Survey Conference. Duluth, MN. 7-11 Jun. 2015.
- **Turk, J.K.***, C.A. Houdeshell, R.C. Graham. The master V horizon for soil horizons dominated by vesicular porosity. ASA-CSSA-SSSA International Annual Meeting, Long Beach, CA. 2-5 Nov. 2014.
- Kiska, R.* (undergraduate advisee) and **Turk, J.K.** The impact of historical charcoal burning on soil properties. ASA-CSSA-SSSA International Annual Meeting, Long Beach, CA. 2-5 Nov. 2014.
- Pelton, G.E.* , B.D. Lee, **J.K. Turk**, and R.C. Graham. Pore space and concretion distribution in a prairie mound fragipan. ASA-CSSA-SSSA International Annual Meeting, Tampa, FL. 3-6 Nov. 2013.
- **Turk, J.K.*** Some simple hands-on activities for teaching key concepts in soil science. ASA-CSSA-SSSA International Annual Meeting, Tampa, FL. 3-6 Nov. 2013.

- **Turk, J.K.*** and J.A. Thompson. Digital mapping of soil organic carbon in the northeastern United States using legacy datasets. National Cooperative Soil Survey Conference, Annapolis, MD. 16-20 Jun. 2013.
- **Turk, J.K.*** and R.C. Graham. Examination of vesicular porosity in desert soils using X-ray computed tomography. ASA-CSSA-SSSA International Annual Meeting, Cincinnati, OH. 21-24 Oct. 2012.
- **Turk, J.K.***, and R.C. Graham. Hydropedology of vesicular horizons: response to changes in structure and porosity. ASA-CSSA-SSSA International Annual Meeting, San Antonio, TX. 16-19 Oct. 2011.
- **Turk, J.K.***, and R.C. Graham. Variation in vesicular horizon expression by desert ecoregion in the western United States. ASA-CSSA-SSSA International Annual Meeting, Long Beach, CA. 31 Oct.-4 Nov. 2010.
- Quideau, S.A.*, R.C. Graham, **J.K. Turk**, B.R. Goforth, and K.J. Kendrick. 2009. Microbial diversity along a debris flow chronosequence. ASA-CSSA-SSSA International Annual Meeting, Pittsburgh, PA. 1-4 Nov. 2009.
- **Turk, J.K.***, and R.C. Graham. Vesicular pore formation: the effect of microbes and soil temperature. ASA-CSSA-SSSA International Annual Meeting, Pittsburgh, PA. 1-4 Nov. 2009.
- **Turk, J.K.***, and R.C. Graham. Field index for quantifying vesicular horizon morphology: development and application. GSA/ASA-CSSA-SSSA/GCAGS/HGS Joint Annual Meeting, Houston, TX. 5-9 Nov. 2008.
- **Turk, J.K.*** and R.C. Graham. Carbon and nitrogen storage in soils formed on a forested debris flow fan, southern California. ASA-CSSA-SSSA International Annual Meeting, New Orleans, LA. 4-8 Nov. 2007.
- **Turk, J.K.***, and R.C. Graham. Soil development in a forested debris flow chronosequence in southern California. WSSS/AAAS Pacific Division Annual Meeting, Boise, ID. 17-21 June 2007.
- **Turk, J.K.***, and R.C. Graham. Soil organic carbon dynamics in a forested debris flow chronosequence in southern California. IUSS 18th World Congress of Soil Science, Philadelphia, PA. 9-15 July 2006.
- **Turk, J.K.***, and R.C. Graham. Rates of soil genesis and carbon accumulation in a ponderosa pine forest using high resolution chronosequence analysis. ASA-CSSA-SSSA International Annual Meeting, Salt Lake City, UT. 6-10 Nov. 2005.

TEACHING

Courses taught

- SOIL 101 Soil & Society. 3-credit course taught in Fall 2019-2020. Online format, meets ACE5 requirement. Enrollment: 33-36.
- AGRO/NRES/SOIL279 Soil Evaluation. 1-credit course taught in Falls 2017-2020 with co-Instructor Becky Young. Lecture and field format (including 6-day field trip to Regional Soil Judging Contest). Enrollment 14-24.
- AGRO/NRES/SOIL477, NRES877, GEOG467/867 Great Plains Field Pedology. 4-credit course taught in Spring 2019-2020. Lecture/lab/field format. Enrollment: 8-18.
- ENVL3432 Soil Science. 4-credit course taught 5 times between 2012 and 2017. Lecture and lab format. Enrollment 9-30.
- ENVL3431 Field Soil Morphology. 1-credit course taught 4 times between 2013 and 2016. Field format (including 5-day field trip to Regional Soil Judging Contest). Enrollment 4-12.

- ENVL1100 Introduction to Environmental Studies. 4-credit course taught 4 times between 2013 and 2017. Lecture format. Enrollment 35-80.
- GNM2318. Soils & Civilization. 4-credit general education course taught 4 times between 2013 and 2016. Lecture format. Enrollment 28-34.
- ENVL3430/GEOL3250 Geomorphology. 4-credit course taught 2 times between 2013 and 2015. Lecture and lab format. Enrollment 9-15.
- ENSC5230 Wetland Soils. 3-credit graduate course taught 2 times between 2014 and 2016. Enrollment 10-12.
- ENVL2105 Physical Geography Laboratory. 1-credit course, 2 sections taught 1 time in Fall 2012. Lab format. Enrollment 15-20.

Contributions to courses taught by others

- AGRO 496/896. Nebraska Range Short Course. 2-credit course (also offered for non-credit or credit through Chadron State College) taught in summer 2018. Contributions: Gave 2 lectures and co-led 2 field trips. Enrollment: 22.
- NRES 101. Natural Resources Orientation. 1-credit course required for Fisheries and Wildlife Major taught in Fall 2018. Contribution: co-led 2 field trips. Enrollment: 60.

Teaching Assistantships

- SWSC138. Soil Morphology & Classification. 4-credit course taught 2 times between 2006 and 2008. Lecture/lab/field format. Enrollment 10-15.
- SWSC100 Introduction to Soil Science. 4-credit course taught 2 lab section/semester during 2 semesters between 2007 and 2009. Lab format. Enrollment 20-25.

Teaching Development Programs

- Peer Review of Teaching Project (University of Nebraska, Lincoln). Developed research project on the use of literature circles for teaching pedology (2020-2021).
- Peer Review of Teaching Project (University of Nebraska, Lincoln). Developed research project on methods for teaching texture by feel (2019-2020)
- Summer Institute for Online Teaching (University of Nebraska, Lincoln). Received training in best practices for online teaching (2019)
- Peer Review of Teaching Project (University of Nebraska, Lincoln). Developed course portfolio of Great Plains Field Pedology (2018-2019)
- Earth Educators Rendezvous (Lawrence, KS). Participated in workshops on a variety of pedagogical topics including "Online learning" and "Inclusive Design" (2018).
- Undergraduate Research Teaching Circle (Stockton University). Facilitated teaching circle discussions to increase student participation in and learning outcomes from faculty-led research (2015-2016).
- On the Cutting Edge (Washington, DC). Participated in workshops focused on professional development for early career geosciences faculty (2013).

FELLOWSHIPS, SCHOLARSHIPS, AND AWARDS

- 2020 Region 5 Soil Judging Contest: 4th place overall in remote contested hosted by University of Missouri (as co-coach of UNL Team)

- 2019 Region 5 Soil Judging Contest: 1st place overall and 1st place group at Grand Island, Nebraska (as co-coach of UNL Team)
- 2019 National Soil Judging Contest: 3rd place overall and 1st place group at San Luis Obispo, California (as co-coach of UNL Team)
- Fellow of the Center for Great Plains Studies (2018)
- 2018 Region 5 Soil Judging Contest: 1st place overall and 3rd place group at Manhattan, Kansas (as co-coach of UNL Team)
- 2017 Region 5 Soil Judging Contest: 1st place overall and 1st place group at Redfield, South Dakota (as co-coach of UNL Team)
- 2016 Region 1 Soil Judging Contest: 2nd place group at University Park, PA (as coach of Stockton Team)
- UCR Stolzy-Letey Environmental Science Travel Scholarships, 2008-2011 (\$2,250 in total)
- SSSA Division S05 Graduate Student Poster Competition 1st Place, 2009 (\$200 cash prize)
- UC-Davis Thayer Scholarship, 2008 (\$240)
- SSSA Division S07 Best Paper on Soil C and N Processes, 2007
- AAAS Pacific Division Student Travel Award, 2007 (\$150)
- Kearney Foundation of Soil Science Graduate Fellowship: Organic matter dynamics in buried soils on a debris flow fan, 2005-2006 (\$31,605)
- 2004 National Soil Judging Contest: 4th place overall at Illinois State University (as student on University of Maryland Team)
- 2003 Region 1 Soil Judging Contest: 1st place overall, 3rd place group, and 7th place individual at University of Rhode Island (as student on University of Maryland Team)

NEWS MEDIA

- With travel restrictions in place, soil comes to UNL's Soil Judging Team for this year's competition (by Cory Matteson). Inside the School of Natural Resources. 8 Oct. 2020.
- Soil pores hold the key to stability for desert soils (by Kaine Korzekwa). Soil Science Society of America. 4 May 2020. Story picked up on 23 additional media outlets.
- Nebraska digs in to offer remote instruction (by Curt Bright and Mary Jane Bruce. Nebraska Today. 30 Mar. 2020.
- Soil Judging Competition. Pure Nebraska. 7 Oct. 2019.
- Soil Judging Team again sweeps regional competition (by Shawna Richter-Ryerson). Inside the School of Natural Resources. 24 Apr. 2019.
- Soil Judging Team earns bronze at nationals (by Shawna Richter-Ryerson). Inside the School of Natural Resources. 11 Oct. 2019.
- Soil Judging Team brings home gold (by Shawna Richter-Ryerson). Inside the School of Natural Resources, UNL. 26 Sept. 2018.
- Soil Judging Team shows its grit (by Shawna Richter-Ryerson). Inside the School of Natural Resources, UNL. 12 Sept. 2018.
- Soil Judging Team sweeps regional competition (by Shawna Richter-Ryerson). Agronomy and Horticulture News, Institute of Agriculture and Natural Resources, UNL. 6 Oct. 2017.
- MAPSS 2015 Field Day at Cunningham Falls State Park, guest authors recruited by MAPSS member and Former President Barry Glotfelty (by Nina Stewart). Pedologue: Newsletter of the Mid-Atlantic Association of Professional Soil Scientists. Spring 2016.
- South Jersey Hydric Soils Field Trip (by Susan Demas). Pedologue: Newsletter of the Mid-Atlantic Association of Professional Soil Scientists. Summer 2014.

- Carbon storage in forest soils recovers rapidly following disturbance by mass wasting. Soil Science Society of America: New Releases. 16 Nov. 2009.
- UMD Soil Judging Team wins for the 4th year in row at the Northeast Regional Contest in Rhode Island! Pedologue: Newsletter of the Mid-Atlantic Association of Professional Soil Scientists. Winter 2004.

OUTREACH AND SERVICE

Community outreach

- National Envirothon contest: Exam writing and training committee (2019-2020)
- Author of group portion of exam for Nebraska FFA statewide competition (2019).
- Co-host for Sunday with a Scientist at the Nebraska State Museum: Soil Investigations (2019).
- Faculty mentor for high school student in Environmentors program (2017-2018)
- Guest lecturer and field trip organizer for Cedar Creek High School Envirothon team soils training(2016)
- Workshop leader for Tweentech: A day of hands-on technology workshops for girls grades 6-8 (2016)
- Workshop leader for Teentech: A day of hands-on technology workshops for girls grades 9-11 (2015)
- Faculty liaison/coach for Dual Credit Program at local high schools (2014-2017)
- Presenter at New Jersey Envirothon South Jersey Training Session (2013)
- Guest lecturer at North Hagerstown High School (2003, 2011)

Service to professional organizations

- Reviewer for Journal of Geosciences Education (2020)
- NE1438 Multistate Research Committee on Carbon Dynamics in Depressional Wetland Systems (2019-present)
- NCERA-3 Multistate Coordinating Committee on Soil Landscape Assessment, Function, and Interpretation (2018-present)
- Reviewer for Soil Science Society of America Journal (2009-present)
- Soils and Technology Symposium (co-organized with Rebecca Young). 2019 Nebraska Society of Professional Soil Scientists Meeting, Lincoln, NE (2019)
- Co-hosted Nebraska Cooperative Soil Survey Conference with Nebraska State Soil Scientist (2019)
- Soils Training and Field Workshops for Nebraska Onsite Waste Water Association. 6 Professional Development Hours. 2 workshops in Fall 2018. 40 total participants.
- Past Chair, Soil Science Society of America Soil Mineralogy Division (2018)
- Chair, Soil Science Society of America Soil Mineralogy Division (2017)
- Mineral Weathering across Scales Symposium (co-organized with Rebecca Lybrand). 2017 ASA-CSSA-SSSA International Annual Meeting, Tampa, FL (2017)
- Soil Science Society of America Higher Education Materials Committee (2016-2017)
- Chair-Elect Soil Science Society of America Soil Mineralogy Division (2016)
- Carbonate, Gypsum, Salts, and Dust Symposium (co-organized with Randal Southard). 2016 ASA-CSSA-SSSA International Annual Meeting, Phoenix, AZ (2016)
- Proposal Reviewer for Western Region National Cooperative Soil Survey Standards Committee (2016)

- National Cooperative Soil Survey Science Committee (2015)
- Reviewer for Plant and Soil (2007)

School and University-wide service

- Advisor to Soil Judging Team Registered Student Organization (2017-present)
- School of Natural Resources Seminar Committee (2019-present)
- School of Natural Resources Community Engagement Committee (2017-2020)
- Second-year faculty panelist at New Faculty Orientation (2018)
- Faculty representative at Open House Events (2012-2017)
- Stockton Sustainability 2020 Committee (2014- 2017)
- Natural Science and Mathematics representative to Library committee (2015-2017)
- LSRPA Scholarship Committee (2015-2017)
- Search Committee: Wildlife Management/Recreational Planning Research Fellow (2015)
- Search Committee: Assistant Professor of Hydrology (2013-2014)