

Dr. Kelly Kathleen Feille

Associate Professor
Instructional Leadership and Academic Curriculum

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Areas of Expertise

Elementary Science Education, Science Teacher Development, Schoolyard Pedagogy
Qualitative Research Methodology, Narrative Inquiry

Education

Ph.D. **Texas Christian University.** May 2014. Science Education.
B.A. **Texas State University (San Marcos).** 2003. Philosophy, Mathematics Minor.

Awards and Honors

2026-2028	National Center for Science Education Sound Science Fellow
2024	Robert L. and Nan A. Huddleston Presidential Professorship <i>University of Oklahoma</i>
2024	Outstanding Science Teacher Educator of the Year <i>Association for Science Teacher Education</i>
2022	Instructional Leadership and Academic Curriculum Scholarship Award
2022-2023	CFE Faculty Success Program Scholar
2022	Excellence in Education Alumni Award. <i>Texas Christian University</i>
2022	Jeannine Rainbolt College of Education Pre-Tenure Faculty Award
2021	Instructional Leadership and Academic Curriculum Pre-Tenure Faculty Award
2020	Instructional Leadership and Academic Curriculum Teaching and Advising Award
2020 -	Jane and John Kenney Endowed Education Faculty Fellow
2010-2014	Andrews Scholar <i>Texas Christian University</i>
2006	Wendy Owsley Garrett Science Teacher Award. <i>Botanical Research Institute of Texas</i>

Professional Experience

2026-	<i>Interim Department Chair.</i> Instructional Leadership and Academic Curriculum, Jeannine Rainbolt College of Education. University of Oklahoma. Norman, OK
2023-Present	<i>Associate Professor.</i> Science Education Instructional Leadership and Academic Curriculum, Jeannine Rainbolt College of Education. University of Oklahoma. Norman, OK
Fall 2023	<i>Acting Associate Dean of Professional Education.</i> Jeannine Rainbolt College of Education. University of Oklahoma. Norman, OK
2017-2023	<i>Assistant Professor.</i> Science Education. Instructional Leadership and Academic Curriculum, Jeannine Rainbolt College of Education. University of Oklahoma. Norman, OK
2014-2017	<i>Senior Lecturer.</i> STEM Education. Teacher Education and Administration, College of Education. University of North Texas. Denton, TX

- 2012-2014 *Technical Assistant*. Teacher Quality. Texas Christian University. Fort Worth, TX
- 2011-2014 *Research Assistant*. Texas Christian University. Fort Worth, TX.
Teacher Quality Evaluation Management Team (Member)
- 2012, 2013 *Adjunct Professor*. Texas Christian University. Fort Worth, TX.
EDEC 20013 Fall, 2013 & Spring, 2012
- 2010-2011 *Outdoor Inquiry Specialist*. East Fort Worth Montessori Academy. Fort Worth, TX.
Design K-5 science curriculum and facilitate outdoor, science instruction
- 2005-2010 *Teacher* (Science, Mathematics, Social Studies). Rosemont Sixth Grade Academy, FWISD, Fort Worth, TX.
2009-2010 Science Department Chair
2008-2010 Team Leader
2008-2009 Fort Worth ISD Curriculum Writing Team Leader, Grade 6
2006-2008 Fort Worth ISD Cadre of Middle School Science Trainers

Scholarly Work

Manuscripts in Refereed Journals

International/National

- Sager, M., Pierce, K., **Feille, K.** (In Review) Science through story: Young Children's Science Practice Engagement in Narrative-Based Afterschool Programming. *Research in Science Education*.
- Casey, E., Alvarez-Briglie, S.*, **Feille, K.** (In Review) Discovering science crosscutting concepts through free play: A 12-week study of elementary students. *Education Sciences*
- Brown, C. L., **Feille, K.**, Jepsen Trangsrud, L. K., Houe, K. W., & Haukeland, P. I. (2026) Where the Rocks Grow: A Photovoice Exploration of Student Study Abroad Experiences Through Deep Ecology. *Ecopsychology* 18(1). 109-151 <https://doi.org/10.1177/19429347251405882>
- Feille, K.**, Brown, C. (2026). Where the rocks grow: How friluftsliv as teacher and study abroad can affect teacher perceptions and actions related to science teaching and learning. *Journal of Science Teacher Education* 37(4) 597-618. <https://doi.org/10.1080/1046560X.2025.2598516>
- Feille, K.**, Brooks, L.**, Burrows, S.**, Fulgham, M.**, Menard, M.**, Sanders, C**, Flynn, M.* (2025) Developing the ECSOP: Observing evidence of learning in early childhood. *School Science and Mathematics*. <https://doi.org/10.1111/ssm.18408>
- Feille, K.** (2025) PSET Learning Through Storyline Curriculum Development *Innovations in Science Teacher Education* 10(3). <https://innovations.theaste.org/pset-learning-through-storyline-curriculum-development/>
- Lee, T*, Neeson, T., **Feille, K.**, (2025) Evaluating Gender and Subject Attitude Effects on Augmented Reality Learning within Informal Education. *International Journal of Science Education, Part B*, 1-20. <https://doi.org/10.1080/21548455.2025.2527375>
- Feille, K.** (2025) Models of science teacher identity: The multiple representations of pre-service elementary science educators. *Journal of Science Teacher Education* 36(4). 465-484. <https://doi.org/10.1080/1046560X.2024.2418147>
- Feille, K.**, Pyle, J.^, Marshall, J.^, Wildes, A.* (2022). It's not a perfect thing: Facilitating an independent engineering fair with fifth grade students. *Impacting Education: Journal on Transforming Professional Practice*. 7(3): 11-19. (Double-anonymous Peer Review) Open Access.
- Feille, K.**, Wildes, A.* (2021). It's hard, but I can do it: How an independent engineering fair project can affect student perceptions of science. *International Electronic Journal of Elementary Education*. 14(1) 23-33. Retrieved from <https://www.iejee.com/index.php/IEJEE/article/view/1569/551> (19% acceptance rate. Double-anonymous Peer Review) Open Access.

- Feille, K.**, (2021). Beyond the classroom: Advancing preservice teacher's pedagogy to include out-of-classroom learning experiences. *School Science and Mathematics*. 121:4 211–222. <https://doi.org/10.1111/ssm.12463> (Double-anonymous Peer Review)
- Feille, K.**, Stewart, M., Nettles, J., Weinburgh, M. (2021). Like the kids do: Engineering design in middle-school science teacher professional development. *Electronic Journal for Research in Science and Mathematics Education* 25(1). (Double-anonymous Peer Review) Open Access
- Feille, K.**, & Hathcock, S. (2021). Supporting schoolyard pedagogy: Engaging preservice teachers in outdoor learning experiences. *Innovations in Science Teacher Education*. 6(1). (Double-Anonymous Peer Review)
- Feille, K.**, Wildes, A.*, Pyle, J.^, Marshall, J.^ (2021). Inspiring Young Minds with an Elementary Engineering Fair. *Science and Children* 58(3). (Double-Anonymous Peer Review)
- Pfeifer-Johnson, L.*, Soreghan, M., **Feille, K.**, Soreghan, G., Weissmann, G., Ibarra, R., & Stroud, A. (2020) Activation of context diversity concepts in a field-based program for non-traditional students. *Journal of Geoscience Education*. <https://doi.org/10.1080/10899995.2020.1838850> (Impact Factor: 1.01, Double-Anonymous Peer Review)
- Feille, K.**, & Shaffery, H.* (2020). Apprehension to application: How a family science night can support pre-service elementary teacher preparation. *Innovations in Science Teacher Education*. 5 (3). (Double-Anonymous Peer Review)
- Feille, K.**, & Nettles, J. (2019). Permission as support: Teacher perceptions of schoolyard pedagogy. *Electronic Journal of Science Education*. 23 (3). (Acceptance rate: 20-22%, Double-Anonymous Peer Review) Open Access
- Feille, K.**, (2019). A framework of schoolyard pedagogy development. *Research in Science Education*. 51(6) 1687 – 1704 Online first. <https://doi.org/10.1007/s11165-019-9860-x> (Impact factor: 4.021, Double-Anonymous Peer Review)
- Feille, K.**, Nettles, J., Weinburgh, M. (2018). Silhouettes of development: A tool for understanding the needs and growth of teachers. *Journal of Science Teacher Education*. 29 (1), 30-45. (Impact factor: 1.67, Double-Anonymous Peer Review).
- Young, J. L., **Feille, K. K.**, & Young, J. R. (2017). Black Girls as Learners and Doers of Science: A Single-Group Summary of Elementary Science Achievement. *Electronic Journal of Science Education*, 21(2). (Acceptance rate: 20-22%, Double-Anonymous Peer Review) Open Access
- Feille, K.**, Nettles, J., & Weinburgh, M. (2017). Water, water everywhere! But is it clean to drink? Applying Engineering Design to the Challenge of Water Purification. *Science Scope*, 40(6), 50–57. (Double-Anonymous Peer Review)
- Feille, K.** (2017). Teaching in the field: What teacher professional life histories tell about how they learn to teach in the outdoor learning environment. *Research in Science Education*, 47(3), 603-620. doi:10.1007/s11165-016-9519-9 (Impact factor: 4.021, Double-Anonymous Peer Review)
- Bloom, M., Quebec Fuentes, S., **Feille, K.**, Holden, M. (2015). Exploring the politics and sustainability of energy production: A professional development program for science teachers. *Journal of Sustainability Education*. January, 2015: Energy Education. (Double-Anonymous Peer Review)
- Feille, K.** (2013) Getting outside: Three teachers' stories of using the schoolyard as an integrated tool for elementary teaching. *Electronic Journal of Science Education*. 17(3)2013. (Acceptance rate: 20-22%, Double-Anonymous Peer Review)

Conference Proceedings (Refereed)

International/National

- Feille, K. (Accepted) *Teacher perceptions of schoolyard pedagogy: Opportunities and constraints*. Proceedings from Proceedings of the 117th annual convention of the School Science and Mathematics Association, Little Rock, AR. (Peer Reviewed)

Bloom, M., Quebec-Fuentes, S., **Feille, K.** (2014). Depoliticizing the environmental impact of energy production: A professional development experience for science teachers. In M. J. Mohr-Schroeder, & S. S. Harkness (Eds.), *Proceedings of the 113th annual convention of the School Science and Mathematics Association* (Vol. 1). Jacksonville, FL: SSMA. (Acceptance rate: 65%, Peer Reviewed)

Chapters in Edited Books

- Feille, K. & Hathcock, S. (2024). Modeling in Elementary Science. In B. Hott & P. Williamson (Eds), *Quality Instruction and Intervention Strategies for Elementary Educators*. Rowan and Littlefield. ISBN 978-1-5381-8698-5
- Feille, K. & Hathcock, S. (2023). Where did my food's food come from?: Nature journaling for meaning-making in photosynthesis. In F. S. Allaire & J. E. Killham (Eds.), *Teaching and Learning Online: Science for Secondary Grade Levels*. Information Age Publishing. ISBN 979-8887301273
- Feille, K. (2021). Uranus has rings: Stepping into the child-like joy of science. In *Teach Science, Technology, Engineering, and Mathematics with a Sense of Humor: Why (and How to) Be a Funnier and More Effective Science Teacher and Laugh All the Way to your Classroom*. Curious Academic Publishing. ISBN 978-1-925128-97-0
- Bloom, M., Fuentes, S. Q., Holden, M., & **Feille, K.** (2015). Navigating the Environmental Politics of Energy Production: Using Mathematical Modeling as a Tool for Educating Science Teachers for Sustainability. In *Educating Science Teachers for Sustainability* (pp. 275-294). Springer International Publishing.

Other

- Feille, K. (2025).** Bridging Wonder and Rigor: Nature Journaling as Transformative Practice in Science Teacher Preparation. *Innovations in Science Teacher Education*, 10(4). Retrieved from <https://innovations.theaste.org/index.php/iste/article/view/430>
- Feille, K.,** Pleasants, J., Velasco, R. (2025) Looking forward to the next five years with EJSME. *Electronic Journal for Research in Science & Mathematics Education*. 29(1) <https://ejrsme.icrsme.com/article/view/23850>
- Feille, K. K.,** Nettles, J. (2018). "Watch Your Watershed." *Watershed Workshops: Andrews Institute of Mathematics and Science Education*, Texas Christian University. Fort Worth, TX: <http://andrewsinstitute.tcu.edu/wp-content/uploads/2018/01/Watch-Your-Watershed-1.0.pdf>
- Feille, K. K.,** Nettles, J. (2018). "Watershed Rescue." *Watershed Workshops: Andrews Institute of Mathematics and Science Education*, Texas Christian University. Fort Worth, TX: <http://andrewsinstitute.tcu.edu/wp-content/uploads/2018/01/Watershed-Rescue-Curriculum-1.0.pdf>
- Feille, K. K.,** Nettles, J. (2018). "Diving Deeper." *Watershed Workshops: Andrews Institute of Mathematics and Science Education*, Texas Christian University. Fort Worth, TX: <http://andrewsinstitute.tcu.edu/wp-content/uploads/2018/01/Diving-Deeper-Curriculum-1.0.pdf>
- Feille, K. K.,** Nettles, J., Stewart, M. (2018). "Watershed Preparedness." *Watershed Workshops: Andrews Institute of Mathematics and Science Education*, Texas Christian University. Fort Worth, TX: <http://andrewsinstitute.tcu.edu/wp-content/uploads/2018/01/Watershed-Preparedness-Curriculum-1.0.pdf>

Dissertation

- Feille, K.** (2014). Investigating the professional life history of upper elementary teachers who successfully facilitate effective science teaching both within the classroom and in the outdoor learning environment. Texas Christian University

Manuscripts in Draft or Revision

- Feille, K.,** Hathcock, S. (In Draft) Evidence of pre-service elementary teacher sense-making through nature journaling
- Hathcock, S., **Feille, K.,** Vasinda, S. (In Revision) Nature journaling: Documenting wonders and living a wide awake life.

- * Indicates graduate student
- ** Indicates undergraduate student
- ^ Indicates in-service teacher

External Funding

Shussler, J (PI); Vogel, J; Bergtold, J; Mittlestet, A; Maguigan, M; (Co PI); Want, N; Perez, G; Chen, C; Kirstetter, P; Strevett, K; Shelton, K; **Feille, K**; Moore, T; Sahem, S; Aenlle, J; Gilmore, T; Zhang, K; Chen, X; Wood Black, F; Cribbs, J; Debusk Gee, K; Zollinger, B (Senior Personnel). NSF EPSCoR Research Infrastructure Improvement-Focused EPSCoR Collaborations Program. Smart Stormwater Management: Use-Inspired Technology for Resilient Stormwater Management . **\$5,999,628.11**. In Review

Vogel, J (PI); Bergtold, J, Chavez-Ramirez, F, Tanck, Zollinger, B (Co-PIs); Schussler, Strevett, Moore, Goertzen (Senior Personnel); **Feille, K.** (Other Personnel) NSF EPSCoR Research Infrastructure Improvement-Focused EPSCoR Collaborations Program. *Smart Stormwater Management as a Resilient and Equitable Climate Adaptation Tool for the Great Plains*. **\$4,000,000** Rejected

Shelton, K., Vogel, J., **Feille, K.**, Water Research Foundation. *Investigating Progression Pathways Across the Water Workforce*. **\$286,740** Rejected

Heddy, B., Brown, C., **Feille, K.**, Danielson, R. Institute of Education Sciences. “Riversport Outdoor adVenture Education Research (ROVER): Promoting Student Social, Emotional, Behavioral and Academic Competencies Through an Adventure Sports Program” (Resubmission) **\$1,639,923** Rejected

June 2024-Dec
2024

Brugar, K. **Feille, K.**, Pleasants, J., Raymond, K., & Velasco, R. **Foundational Acceleration and Support for Teachers of STEM (FAST STEM)** Oklahoma State Regents for Higher Education Teacher Acceleration Programs. “

\$550,000 Funded

Velasco, R., **Feille, K.** Norman Communities and Schools Together (NCAST) for STEM. Oklahoma State Regents for Higher Education Full STEM Ahead. **\$6,000** Not Funded

Heddy, B., Brown, C., **Feille, K.**, Danielson, R. Institute of Education Sciences. “Riversport Outdoor adVenture Education Research (ROVER): Promoting Student Social, Emotional, Behavioral and Academic Competencies Through an Adventure Sports Program”

\$1,639,923 Not Funded

Brugar, K. **Feille, K.**, Pleasants, J., Raymond, K., & Velasco, R. Oklahoma State Regents for Higher Education Teacher Acceleration Programs. “STEM Teacher Acceleration”.

\$2,974,250 Not Funded

Feille, K., Pleasants, J., Oklahoma Teacher Connection Collegiate Grant. “Induction Support for Science Teachers of Oklahoma”

\$8000 Not Funded.

Feille, S., **Feille, K.**, Weinburgh, M. National Science Foundation DRK12 “Collaborative Research: Investigating embedded coaching as support for the development of elementary teachers' multimodal literacy infused science and schoolyard pedagogy” **OU request \$458,572 (\$2.6M total request)** Not Funded

PI: **Kelly Feille**, Co-PIs: Ben Heddy, Jacob Pleasants

National Science foundation. “ADVISE: Advancing and Developing Virtual Informal Stem Engagement”

\$299,692 Not funded

PI: Kyong Ah Kwon, Co-PIs: Sarah Little, Lukas Lopez, Sherri Castle, Cian Brown, Elizabeth Ethridge, **Kelly Feille**, Mia Kile

Caplan. “Happy Child Project: Improving Outdoor Experiences for Whole Child Development and Well-Being in Urban and Low-Income Communities

\$73,830 Not funded

PI: **Kelly Feille**

National Science Foundation. “STEM learning at a distance: Engaging rural students in distance-learning Maker Camps”

\$299,851 Not funded

September 2021-
August 2024

PI: Gerilyn Soreghan, CoPI: **Kelly Feille** (w/ Y. Cui)

National Science Foundation. NSF-2103117 Collaborative Research: “Probing causal links among volcanism, dust, and carbon burial in the Permian – a harbinger of the future?” NSF Program – Paleoperspectives on Climate Change

\$363,742 Funded

PI: **Kelly Feille**, CoPI: Stephanie Hathcock

Spencer Foundation Small Grants: Education. Nature Journaling in 3D: Supporting Standards Based Science Instruction

\$49,801 Not funded

September 2020-
May 2021

PI: **Kelly Feille**, CoPI: Kate Raymond

Building Oklahoma Networks of Educators of STEM (BONESTEM) Oklahoma State Regents for Higher Education

\$5000 Funded

PI: Shannon Dulin, CoPIs: **Kelly Feille**, Elinor Martin, Kato Dee

National Science Foundation. “**GP-IN: BRIDGE—Building Resources for Inclusion and Development in Geoscience Education**” **\$331,759.00** Not funded

February – June
2020

PI: Richard Zamor, **Kelly Feille**, sub-contractor curriculum development. Environmental Protection Agency Environmental Education Grant. “Guard the Grand Community”

\$100,000 Funded

March 2020-
June 2021

PI: Julie Angle, **Kelly Feille**, contracted researcher

President Fellow’s Faculty Research Award, Oklahoma State University “Expedition Yellowstone: A Placed-Based Education Experience.” **\$20,000** Funded

PI: Mashad Fahes, Co-PI: **Kelly Feille** and Janette Habashi. “Coding as play in early childhood education: Diversifying the STEM Pipeline” **\$55,000** Not funded

April 2016-May
2017

PI: Molly Weinburgh, **Kelly Feille**, primary content/pedagogy instructor

Texas Higher Education Coordinating Board, Teacher Quality Enhancement. “Communities of practice in environmental science.” **\$230,000.00** Funded

Internal Funding

2025

Alternative Textbook Grant OU Libraries. **\$1500**. Funded

2024

Alternative Textbook Grant. OU Libraries. **\$1750**. Funded

April 2024-April
2025

Developing the ECSOP: Observing Evidence of Science Learning in Early Childhood. Faculty Investment Program. **\$13,802.60** Funded

	Developing the ECSOP: Observing Evidence of Science Learning in Early Childhood. Faculty Investment Program. \$13,802.60 Not funded
2023	Hot Topics in Earth Science: Extended PD for Secondary Teachers. JRCOE Summer Research Support. \$4527.51
2023	Faculty Research Travel Award. ASTE. Salt Lake City, UT \$450
2023	OVPRP Faculty Travel Support. ASTE. Salt Lake City, UT \$526.61
2022	Faculty Research Travel Award. SSMA. Missoula, MT \$400
	PI: Kyong Ah Kwon, Co-PIs: Lukas Lopez Sarah Little,, Sherri Castle, Elizabeth Ethridge, Cian Brown, Shinyoung Jeon, Kelly Feille , Mia Kile
	Happy Child Project: Improving Nature-Based Outdoor Play Experiences for Whole Child Development and Well-Being in Urban and Low-Income Communities. Faculty Investment Program. \$15,000 Not Funded
2022	Faculty Research Travel Award. AERA. San Diego, CA \$800
2022	OVPRP Faculty Travel Support. AERA. San Diego, CA \$1500 Funded
2021-2022	Nature Journaling as Meaning Making in Elementary Science Ed Cline Faculty Development Awards \$795.78 Funded
2021	Nature Journaling as Meaning Making with Early Elementary Students JRCOE Research Support \$1330 Funded
2021	University Libraries Open Access Fund. \$350 Funded
2021	Faculty Research Travel Award. SWASTE. The Woodlands, TX \$500
2021	Models of science teacher identity: The multiple representations of pre-service science educators. JRCOE Summer Faculty Research Support \$6000 Funded
	PI: Kelly Feille , CoPI: Kristen Shelton*
	Academic Research and Creative Activity Enterprise Rapid Response Seed Grant Opportunity. The International STEM Collection Database
	\$15,171 Not funded
2019	Faculty Research and Travel Award. SWASTE. Fayetteville, AR \$850
2019	Faculty Research and Travel Award. AERA. Toronto, ON CA \$1450
2018	Faculty Research and Travel Award. SSMA. Little Rock, AR. \$700
2018	Faculty Research and Travel Award. ASTE. Baltimore, MD \$650
2017	Faculty Research and Travel Award. SWASTE. Waco, TX. \$315

Planned Funding Requests

Expanding the ECSOP

Investigating ArtSparks impact

* Indicates graduate student

^ Indicates in-service teacher

U Indicates undergraduate student

Paper Presentations

International

- Feille, K.,** Brown, C., (January, 2025) *Where the Rocks Grow: How Friluftsliv as Teacher and Study Abroad can Affect Teacher Perceptions and Actions Related to Science Teaching and Learning*. The Association for Science Teacher Education. Long Beach, CA
- Feille, K.,** Brooks, L^U, Burrows, S^U, Fulgham M^U, Menard, M^U, Sanders, C^U, Flynn, M.*, (January, 2025) *Developing the ECSOP: Observing Evidence of Science Learning in Early Childhood*. The Association for Science Teacher Education. Long Beach, CA
- Flynn, M.* **Feille, K.** (November, 2024). *Hot Topics in Earth Science: Supporting Climate Science Education*. School Science and Mathematics Association Annual Convention. Knoxville, TN
- Feille, K.,** Brown, C. (November, 2024). *Adventure Norway: Outdoor Education for Preservice Teachers*. School Science and Mathematics Association Annual Convention. Knoxville, TN
- Feille, K. (January, 2024). *PSET Learning Through Storyline Curriculum Development*. The Association for Science Teacher Education. New Orleans, LA.
- Feille, K.,** Hathcock, S., Gilbert, A. (January, 2024). *Engaging in Wonder through Nature Journaling*. The Association for Science Teacher Education. New Orleans, LA.
- Flynn, M.*, Cook, A*, Powell, D.*, Johnson, R.*, Morris, M.*, **Feille, K.** (January 2024). *Hot Topics in Earth Science: Supporting Climate Science Education*. The Association for Science Teacher Education. New Orleans, LA.
- Feille, K.,** Hathcock, S (January, 2023) *Evidence of pre-service elementary teacher sense-making through nature journaling*. The Association for Science Teacher Education. Salt Lake City, UT
- Hanucin, D., Wilcox, J., Mikeska, J., Lottero-Perdue, P., Kruse, J., Voss, S., Kent-Schneider, I., Melton, J., Vo, T., Blaine, D., Douglass, H., Moran, D., Bartels, S., Boche, B., Pecore, J., Kim, M., Nagle, C., Welty, T., Demetrikopoulos, M., Perkins Coppola, M., McDonald, J., **Feille, K.,** Hathcock, S. (January, 2023) *Reimagining Possibilities for Elementary Science Field Experiences & Practica*. The Association for Science Teacher Education. Salt Lake City, UT
- Feille, K.,** Hathcock, S (October, 2022) *Finding the science: How PSTs describe the curricular relevance of their own nature journals*. School Science and Mathematics Association Annual Convention. Missoula, MT
- Feille, K.,** sheldon, k.* (April 2022) *Pre-service representations of self: Models of science teaching*. American Educational Research Association. San Diego, CA.
- Feille, K.,** sheldon, k.* (January 2022) *Models of science teacher identity: The multiple representations of pre-service elementary science educators*. The Association for Science Teacher Education. Greenville, SC
- Hathcock, S., **Feille, K.,** Shaffery, H.*, Alvarez-Briglie, S.,* Cook, A.* (January 2022) *Connections in the schoolyard: Engaging in the crosscutting concepts through nature journaling*. The Association for Science Teacher Education. Greenville, SC
- Feille, K.,** Pyle, J.,^ Marshall, J.,^ Wildes, A. (April 2021) *It's not a perfect thing: Facilitating an independent engineering fair with fifth grade students*. American Educational Research Association. Virtual Conference
- Feille, K.,** Hathcock, S., (March 2021) *Nature Journaling as 3D Support for Online Teaching and Learning*. International Consortium for Research in Science and Mathematics Education. Virtual Conference
- Feille, K.,** Hathcock, S., (January 2021) *Nature Journaling in 3D: Supporting standards-based science instruction with preservice teachers*. Association for Science Teacher Education. Virtual Conference
- Feille, K.,** Hathcock, S. (November 2020). *Preservice Teachers' Representations of Using the Schoolyard to Teach*. School Science and Mathematics Association Convention. Virtual Convention.
- Feille, K.,** Wildes, A.* (March 2020 – Cancelled due to COVID 19). *How an Independent Engineering Fair Project Can Affect Student Perceptions of Science*. National Association of Research in Science Teaching Annual Conference. Portland, OR. <http://kellyfeille.oucreate.com/research-and-writing/narst-2020/>
- Feille, K.,** Hathcock, S. (January 2020). *Schoolyard Pedagogy: Engaging Preservice Teachers in Outdoor Learning Experiences*. Association for Science Teacher Education. San Antonio, TX
- Feille, K.,** Shaffery, H.* (November 2019). *Tonight we're all Bill Nye: Science nights as support for pre-service teachers*. School Science and Mathematics Association Convention. Salt Lake City, UT
- Feille, K.** (April 2019). *I'd rather be outside: Schoolyard pedagogy development for elementary science teachers*. American Educational Research Association. Toronto, ON Canada
- Feille, K.,** Hathcock, S., Klein, B. (January 2019). *Developing Schoolyard Pedagogy in Preservice Elementary Teachers: A Look at Three Institutions*. Association for Science Teacher Education. Savannah, GA

- Nettles, J., **Feille, K.**, Stewart, M. (October 2018). *Informal Summer Science Workshops and Student Perceptions of Science*. School Science and Mathematics Association Convention. Little Rock, AR
- Feille, K.** (October 2018). *Schoolyard Pedagogy: Teacher Perceptions and Self-Report*. School Science and Mathematics Association Convention. Little Rock, AR
- Feille, K.** (January 2018). *Beyond the classroom: Advancing preservice teacher's pedagogy to include out-of-classroom learning experiences*. Association for Science Teacher Education. Baltimore, MD
- Feille, K.** (January 2015). *Teaching in the field: What teacher professional life histories tell about how they learn to teach in the outdoor learning environment*. Association for Science Teacher Education. Portland, OR.
- Nettles, J., **Feille, K.**, Weinburgh, M. (January 2015). *Reflection writing: A tool for understanding teacher's perspectives on long term professional development*. Association for Science Teacher Education. Portland, OR.
- Bloom, M., Quebec-Fuentes, S., **Feille, K.** (2014). *Depoliticizing the environmental impact of energy production: A professional development experience for science teachers*. 113th Annual Convention of the School Science and Mathematics Association. Jacksonville, FL.
- Calderon, F., **Feille, K.**, O'Donald, K., Powers, T., & Reynolds, S. (April, 2013) *Curriculum of the South-West*. Annual Conference of the American Educational Research Association. San Francisco, CA.
- Feille, K.** (March, 2013). *Getting Outside: Three teachers' stories of using the schoolyard as an integrated tool for elementary teaching*. National Association of Research in Science Teaching Annual Conference. Rio Grande, Puerto Rico.
- Feille, K.** (February 2013). *Using teachers' stories to research the use of schoolyard as a tool for elementary teaching*. International Conference of the Outdoor Learning Environment. Israel.
- Regional**
- Feille, K.**, Brooks, L^U. Burrows, S^U., Fulgham M^U., Menard, M^U., Sanders, C^U., Flynn, M.*., (2024) *Developing the ECSOP: Observing Evidence of Science Learning in Early Childhood*. Southwest Association for Science Teacher Education. Denton, TX
- Feille, K.**, Hathcock, S. (October 2019). *Schoolyard pedagogy: Engaging preservice teachers in outdoor learning experiences*. Southwest Association for Science Teacher Education.
- Hathcock, S., **Feille, K.** (June, 2019) *Creative teaching through schoolyard pedagogy*. Oklahoma Science Teachers Association Summer Conference. Tulsa, OK.
- Hathcock, S., **Feille, K.** (February, 2019) *Nature journaling: Promoting creative teaching in the Schoolyard*. Oklahoma Association for the Gifted, Creative, and Talented. Edmond, OK.
- Feille, K.**, Leggate, A (October 2017). *Talking about myself: What we can learn from pre-service elementary teachers' science autobiographies*. Southwest Association for Science Teacher Education. Waco, TX.
- Laubach, T., **Feille, K.**, (October 2017). *Engaging a college-wide community in an authentic scientific phenomenon: The 2017 Great American Solar Eclipse at the University of Oklahoma*. Southwest Association for Science Teacher Education. Waco, TX.
- Feille, K.**, Nettles, J (October 2016). *EQUIPPing Pre-Service Teachers* Southwest Association for Science Teacher Education. Tyler, TX.
- Feille, K.**, Nettles, J (October, 2014). *Citizen Science: It's contagious!* Southwest Association for Science Teacher Education. Emporia, KS.
- Feille, K.**, (October, 2013). *How does your garden grow? A quantitative look at garden education partnership and school science scores*. Southwest Association for Science Teacher Education. San Antonio, TX.

Bloom, M. & **Feille, K.** (October, 2011). Presentation of Ongoing Research: In-service teachers' understandings of energy. Southwest Association for Science Teacher Education. Lubbock, TX.

Feille, K. (October 2011). Round table discussion: Investigating teachers and school garden use. Southwest Association for Science Teacher Education. Lubbock, TX.

Presentations (Invited)

Feille, K. (2014). *Nature Deficit Disorder Community Forum*. Sponsored by Phi Theta Kappa, Tarrant County College, Northeast Campus.

Professional Development

Feille, K. (March, 2026). *From notebook to knowledge: Nature journaling for experiential learning. Keep Educating Yourself (KEY) Conference. Norman, OK*

Feille, K. (March, 2022). *Nature journaling as tools for meaning making in science. Keep Educating Yourself (KEY) Conference. Norman, OK.*

Feille, K. (March 2020). *Engaging Students with Big Ideas in Science. KEY Conference. Norman OK.*

Feille, K., (October 2019) *The phenomena of the schoolyard and student engagement in authentic science learning. GET FIT Norman Public Schools. Norman, OK*

Hathcock, S., **Feille, K.** (June 2019). *Creative teaching through schoolyard pedagogy. Oklahoma Science Teachers Association. Tulsa, OK.*

Feille, K., Hathcock, S. (March 2019) *Nature journaling: Promoting creative teaching in the schoolyard. KEY Conference. Norman, OK.*

Hathcock, S. **Feille, K.,** (Feb 2019) *Nature journaling: Promoting creative teaching in the schoolyard. Oklahoma Association for the Gifted, Creative, and Talented. Edmond, OK*

Laubach, T., **Feille, K.** (2017). *Some like it hot! iPadapooloozaOU. Norman, OK.*

Feille, K., Weinburgh, M. (2016) *Communities of practice in environmental science. Andrews Institute of Mathematics and Science Education. Fort Worth, TX*

Research and Creative Activities in Progress

"Outdoor Adventure Therapy & Education" (On-Going). (Spring 2021 – Present)

"Nature Journaling and Elementary Science Education" (On-Going). (Aug 2019 – Present)

"Methods Course Interventions and Outdoor Teaching" (On-Going). (2018 - Present).

"Schoolyard Pedagogy" (On-Going). (2017 - Present).

"Pre-service elementary teachers' science teaching identities" (On-Going). (2017 - Present).

Journal Activities

Co-Editor

Journal: Electronic Journal for Research in Science and Mathematics Education, 2024–present

Associate Editor

Journal: Electronic Journal for Research in Science and Mathematics Education, 2020–2024

Editorial Review Board

Journal: *Innovations in Science Teacher Education*, 2019–Present

Journal: *Journal of Science Teacher Education*, 2021-Present

Ad hoc Reviewer

Journal: *Sustainability* (Invited)

Journal: *Journal of Science Teacher Education*, 2019-2021

Book: *Pedagogical Content Knowledge in STEM: Research to Practice*

Journal: *Educational Researcher*, 2018-present

Journal: *Science Education*, 2018-present

Journal: *School Science and Mathematics*, 2018-present

Journal: *Electronic Journal of Science Education*, 2014-2020

Journal: *Leisure/Loisir*, 2016 (Invited)

Journal: *Journal of Teacher Action Research*, 2016-present

Membership in Professional Organizations

National/International

2017-Present School Science and Mathematics Association (SSMA)

2014-Present National Science Teachers Association (NSTA)

2011-2019 National Association of Research in Science Teaching (NARST)

2011-Present Association for Science Teacher Education (ASTE)

2013-Present American Educational Research Association (AERA)

Regional

2010-Present Southwest Association for Science Teacher Education (SW-ASTE)

Professional Certifications

2006-Present Texas Educator Certificate, Generalist Grades 4-8

Teaching Experience

Undergraduate

University of Oklahoma

EDUC 3223 Introduction to Education (PACS Adult Degree Completion)

EDSC 3233 Environmental Issues in the Community

EDUC 4060 Teaching Experiences in the Secondary School

EDSC 4/5533 Advanced Methods for Secondary Science Education

EDSC 4193 Teaching Science-Elementary Schools

EDSC 4093 Inquiry Based Science Teaching

University of North Texas

EDEE 4330 Science Methods for Elementary Teachers

EDEE 4890 Inquiry into Teaching

Cadre Coordinator (EMSISD)

Cadre Coordinator (LISD)

Texas Christian University

EDEC 20013 Science for Elementary Teachers

Graduate

ILAC 6930 Prospectus Development

EDSC 5940 Field Studies in Education

ILAC 5970 Qualitative Inquiry in Science Education

EDSC 5970 Foundations of Outdoor Education

EDSC 5523 The Science of Learning Theories

EDSC 5543 Elementary Science Curriculum

ILAC 5143 Educational Theory and Research

EDSC 5970 Equity in STEM Education

Graduate Students Advised

Doctoral Committee Chair and Advisor

Heather Shaffery (May, 2024) *Self as praxis: Centering teacher identity in instructional practices in the secondary science classroom.*

Ja'Corie Maxwell (December, 2024) *"They not like us" A collection of counternarratives centered on Black secondary students' experiences in educational spaces.*

kristen shelton (December, 2023) *Exploration of Previous Science Experiences and Sociocultural Factors that Influence Science Literacy of First-Year College Students*

Tiffany Neill (December, 2022) *Understanding the Impact of a STEM Explanatory Model on STEM-Education Stakeholders' Conceptions of STEM Education*

Mariah Warren (Doctoral Candidate)

Amelia Cook (Doctoral Candidate)

David Powell (Doctoral Candidate)

Rachelle Johnson (Doctoral Candidate)

Madison Morris (Doctoral Candidate)

Sofia Alvarez Briglie (In progress)

Mackenzie Flynn (In progress)

Harriett Lumula (In progress)

Sarah Olinghouse-Rockwell (In progress)

Doctoral Committee Member

Hayden Criswell (Doctoral Candidate) Dr. Jacob Pleasants, Chair (PhD, Science Education)

Lane Folds (2026) introduction to music education student teaching courses: An exploratory study. Dr. Christopher Baumgartner, Chair (PhD, Music Education).

Ryan Meeks (2024) Dr. Christopher Baumgartner, Chair (PhD, Music Education)

Wendy Mitchell (2024) Dr. Kendra Williams Diehm, Chair (PhD, Special Education)

Emily Stanfil (Doctoral Candidate) Dr. Christopher Baumgartner, Chair (PhD, Music Education)

Andy Heuer (2024) Dr. Corey Peltier, Chair (PhD, Special Education)

Trey Lee (2023) Dr. Tom Neeson, Chair (PhD, Geography and Environmental Sustainability)

Alicia Bonar (May 2023) Dr. Lynn Soreghan, Chair (PhD, Geology) *Exploring the Generation and Preservation of Dust During the Quaternary and Neoproterozoic*

Wendy Mitchell (2024) Dr. Kendra Williams-Diehm, Chair (PhD, Special Education)

Diya Tang (2025) Dr. Robyn Biggs, Chair (PhD, Chemistry)

Lily Pfeifer-Johnson (Dec 2020) *Permian loess and equatorial glaciation in eastern equatorial pangea* Dr. Lynn Soreghan, Chair (PhD, Geology)

W. Adam Stroud (May 2019) *The story of St. Monica's School of Basic Learning for Women*. Dr. Lawrence Baines, Chair

Eloise Kuehnert (May 2018) *Operationalizing listening-to-question and questioning-to-listen in mathematics teaching*. Dr. Colleen Eddy, Chair (University of North Texas)

Chelsea Allison (December 2017) *Teaching outside the box: Student and teacher perceptions of flexible learning environments outside the 21st century classroom*. Dr. Miriam Ezzani, Chair (University of North Texas)

Masters Committee Chair and Advisor

Noah Cornell (In Progress)

Kathleen Wilkerson (In Progress)

Mackenzie Flynn (2025) *Hot topics in earth science: Development and evaluation of a climate change-centered professional development program for secondary science teachers*.

Laura Sabatelli (Summer 2022) Non-thesis

Jessica Blunt (December 2022) Non-thesis

Nate DeAngelis (December 2022) Non-thesis

Lisa Ratliff (December 2022) Non-thesis

Sofia Alvarez Briglie (Spring 2022) *Adaptations to OpenSciEd to Promote a More Equitable Education* Non-thesis

Alonna Smith (May 2021) *How do inequitable environmental factors affect human health?*

Connecting Social Issues & Human Health Inequities: A Storyline Lesson Series. Non-thesis

Jeremiah Smith (May 2020) *A 5E Model for the Study of Population Capacity in Advance Placement Environmental Science*. Non-thesis.

Masters Committee Member

Madison Wondra (2024) Dr. Jacob Pleasants, Chair

Claudia Colonello Olivares (2024) Dr. Jacob Pleasants, Chair; Dr. Kelly Feille, Advisor

Logan Draper (2024) Dr. Jacob Pleasants, Chair

Fabian Sanchez (2024) Dr. Jacob Pleasants, Chair

Janelle Wiley (December 2022) Non-thesis. Dr. Aiyana Henry, Chair

Mandy Howell (Summer 2021) Non-thesis. Dr. Kate Raymond, Chair

Khala Vitz (May 2019) Non-thesis. Dr. Tim Laubach, Chair

Adisson Grant (Dec 2018) Non-thesis. Dr. Tim Laubach, Chair

Abigail Leggate (May 2018) *The transition of a community of practice to a professional learning community for high school biology teachers: A case study* Dr. Tim Laubach, Chair

Service to the University

Service to the Department

2025-2026	First Year Experience Faculty Search Committee	Member
2024	Early Childhood Education Faculty Search Committee	Member
2023	Early Childhood Education Faculty Search Committee	Member
2022-2023	Graduate Faculty Committee	Chair
2021	Mathematics Education Faculty Search Committee	Member
2021	Science Education Faculty Search Committee	Chair
2020 – present	Graduate Faculty Committee	Member
2019 – present	Science Education Program Area Coordinator	
2017-present	Elementary Education Certification Committee	Member
2017	Mathematics Education Search Committee, Instructional Leadership and Academic Curriculum, OU	Member

2016-2017	Admission, Review, and Retention: EC-6 and 4-8 Initial Certification Subcommittee, Teacher Education and Administration, UNT	Member
2016-2017	4-8 Program Coordinator, lead advisor	
2016-2017	Social Committee, TEA, UNT	Chair
2015-2017	Election Judge, TEA, UNT	
2014-2017	Student Affairs: Undergraduate Subcommittee, TEA, UNT	Member
2014-2015	CAEP Diversity and Equity Subcommittee, TEA, UNT	
2014-2017	Diversity and Equity Committee, TEA, UNT	
2014-2017	Cadre Coordinators, TEA, UNT	Lead Instructor

Service to the College

2026	Search Committee: Counseling	Member
2025	Curriculum Committee	Member
2023	Acting Associate Dean of Professional Education	
2023-	PACS Adult Degree Completion Program - LES	Program Coordinator
2023	Science Education SPA Report	Author
2023	Degree Completion Task Force	Member
2023	Advanced Programs	Acting Director
2022	EdD Working Group	Member
2021	Virtual Graduate Student Scholarship Symposium	Moderator
2019 – 2022	Climate Committee	Member
2019 – 2021	OK Sooners NSTA Student Group	Faculty advisor
2020 – present	Petition Task Force	Member
2019 – present	EPD Executive Committee	Member
2018 – present	EPD	Member
2018 – 2021	Ethics Committee	Member

Service to the University

2025-2028	Academic Programs Committee	Member
2025-	Sustainable Energy Systems	Program Chair (SP 2026) Affiliate Faculty
2024-	Adult Degree Completion: Learning and Education Studies (PACS)	Program Director
2024	Center for Faculty Excellence Fellow	
2023	ORAU Powe Junior Faculty Enhancements Awards Selection Committee	Member
2023-2025	Sustainable Energy Systems Task Force	Member
2023	Faculty Success Program Fellow Selection Committee	Member
2022-2026	University Athletics Council	Member
2021-2022	First-Year Student Faculty Mentor	Faculty mentor

2018	Social Sciences Graduate Student Writing Group Facilitator	Invited faculty mentor
2018-2020	Board of Trustees, John Rex Charter Elementary School	University appointed member
2016-2017	Women's Faculty Network Leadership Team, UNT	

Service to the Profession

National/International Professional Organizations

Spencer Foundation	2022-2023 Conference Grant Review Panel	Invited
ASTE	2026 President Elect	Elected
	2022-2026 Conference Program Coordinator	Appointed
	2021 Virtual Program Committee Chair	Appointed
	2018-2021 Awards Committee	
	2016-2023 Regional Director (Southwest Region)	Elected
	2015-Present Reviewer, Strand 5	
	2014 A/V Assistant	
SSMA	2020-2023 Policy Committee	
	2018-2023 Reviewer	
NARST	2018 Reviewer, Strand 7	
	2015 Reviewer, Strands 3, 7	
	2014 Reviewer, Strand 4	
	2013 Presenter	

Regional Professional Organizations

SW-ASTE	2016-2022 Board Member, Regional Representative
	2018 Conference Co-chair
	2016-2017 Past President
	2015-2016 President, Conference Host
	2014-2015 President Elect
	2013-2014 Board Member, Secretary

Service to the Community

District Partnerships and Teacher Support

2025-	Project Learning Tree Steering Committee	Member
2024-	Goddard Youth Camp Board of Trustees	Member
2024	OU FAST GEER	Team Member
2023-2024	Hot Topics in Earth Science Professional Development	Director
2021-2024	Oklahoma Alliance for Geographic Education	Board Member
2021-2022	Oklahoma City Public Schools GATE Local Advisory Council	Member
2021	Norman Public Schools District Textbook Committee	Voting Member

Curriculum Development

2020 4th Grade Watershed Instructional Sequence for “Guard the Grand Community” in partnership with the Grand River Dam Authority funded by Environmental Protection Agency Environmental Education Grant.

Student Workshops and Community Outreach

2018 Citizen Scientists: Watch your watershed! Grades 3-5
Citizen Scientists: Watershed Rescue Grades 6-8
Citizen Scientists: Diving Deeper Grades 6-9
Citizen Scientists: Watershed Preparedness Grades 6-9
Andrews Institute of Mathematics and Science Education,
Texas Christian University

2017 Citizen Scientists: Watch your watershed! Grades 3-5
Citizen Scientists: Watershed Rescue Grades 6-8
Citizen Scientists: Diving Deeper Grades 6-9
Citizen Scientists: Watershed Preparedness Grades 6-9
Andrews Institute of Mathematics and Science Education,
Texas Christian University

2016 Citizen Scientists: Watch your watershed! Grades 3-5
Citizen Scientists: Watershed Rescue Grades 6-8
Citizen Scientists: Diving Deeper Grades 6-9
Andrews Institute of Mathematics and Science Education,
Texas Christian University

2016-2017 Grapevine/Colleyville ISD STEM Advisory Council

2015 Citizen Scientists: Watch your watershed! Grades 3-5
Citizen Scientists: Watershed Rescue Grades 6-8
Andrews Institute of Mathematics and Science Education,
Texas Christian University

2014 Citizen Scientists: Watch your watershed! Grades 3-5.
Andrews Institute of Mathematics and Science Education,
Texas Christian University.

2012 Journeys: A workshop exploring science in our place.
Grades 3-5. Andrews Institute of Mathematics and Science
Education, Texas Christian University.

Other Professional Activities

Graduate Research Experience

2011-2013 Teacher Quality Evaluation Management Team (Member).
Funded by THECB (\$757, 543.⁰⁰)

2012-2013 Curriculum of Place of the South-West. Non-funded.

2010-2014 Pre-service teachers’ conception of inquiry in Science and Mathematics. Non-funded.

Continuing Professional Development

2023	Faculty Success Alumni Program, NCFDD
Fall 2022	Faculty Success Program, NCFDD
Summer 2022	Wild Wonder Nature Journaling Conference, Virtual
Summer 2021	Wild Wonder Nature Journaling Conference, Virtual
Fall 2020	Wild Wonder Nature Journaling Conference, Virtual
Spring 2020	Faculty Writing Group OU Writing Center - Invited
Fall 2019	Wild Wonder Nature Journaling Conference, Pacific Grove, CA
Spring 2018	Writing your journal article in 12 weeks
Fall 2017	New Faculty Seminars
Fall 2017	Collaborative IRB Training Initiative Basic Web Course
Fall 2017	Coaching as Advising
Fall 2017	Faculty ALLY Training, University of Oklahoma
2014	English Language Proficiency Standards Training, University of North Texas
2013	Graduate Student Grant Writing Workshop, Texas Christian University
2013	5-day Dissertation and Thesis Boot Camp, Texas Christian University
2010	TCU IRB Training, Texas Christian University
2006-2011	Teacher Quality – Texas Christian University