Steph N. Dean, Ph.D.

College of Education, Department of Teaching and Learning Clemson University, Clemson, South Carolina

ACADEMIC EXPERIENCE

Current Position

Clemson	University
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Assistant Professor of Early Childhood & Elementary Science Education August 2023 - Present Department of Teaching and Learning

K-12 Teaching and Curriculum Development

STEM Resource Teacher Fairfax County Public Schools – Alexandria, VA	Aug 2022 – June 2023
Upper Elementary Teacher Fairfax County Public Schools – Springfield, VA	Jan. 2022 – June 2022
Watershed (6 th grade) Teacher Lorien Wood School – Vienna, VA	June 2020 – Dec. 2021
Form 3 Teacher Lorien Wood School – Vienna, VA	June 2017 – June 2020
Curriculum Developer Shmoop, A Plus Education, and The New Ag School	Jan. 2016 – June 2017
Upper Elementary Teacher Fairfax County Public Schools – Herndon, VA	Jan. 2012 – June 2016
Virginia Teacher License	Jan. 2012 – June 2031

ACADEMIC DEGREES

Doctor of Philosophy, Education

August 2022

George Mason University – Fairfax, VA

- Specialization: Science Education Research
- Secondary: Research Methods in Teaching and Teacher Education
- Dissertation: A phenomenological study of the lived experiences of teachers who implement outdoor/environmental education within a K-12 setting

Masters of Arts, Elementary Math Education

Oct. 2013

Western Governors University – Salt Lake City, UT

- Capstone Award of Excellence in Expressing Ingenuity

Bachelor of Arts, Interdisciplinary Studies K-8

Dec. 2011

Western Governors University – Salt Lake City, UT

SCHOLARLY PUBLICATIONS

Publications

Peer-Reviewed Articles

- **Dean, S. N.**, & Jones, D. A.* (2024). An examination of educators' approaches and strategies when facilitating field study science observations. *Interdisciplinary Journal of Environmental and Science Education*, 20(1), e024xx. https://doi.org/10.29333/ijese/xxxx
- **Dean, S. N.**, & Gallifa, J. (2024). Outdoor environmental educators' views on learning in light of Integral Theory. *Journal of Experiential Education*, 0(0). https://doi.org/10.1177/10538259241252814
- **Dean, S. N.** & Gilbert, A. (2024). 'Watching what they can do on their own is beautiful': A navigation of shared agency in school-based outdoor environmental education. *Journal of Adventure Education and Outdoor Learning*. https://doi.org/10.1080/14729679.2024.2314605
- **Dean, S. N.** & Elliot, S. (2022). Urgency, equity, and agency: An assemblage of global concerns and interests in early childhood education for sustainability. *International Journal of*

^{*}Graduate student, undergraduate student, or teacher

- Early Childhood Environmental Education, 9(2). https://naturalstart.org/sites/default/files/journal/7. final dean elliott.pdf
- **Dean, S.** & Gilbert, A. (2022). Wonder-full thinking: Promoting inquiry through student-driven investigations. *Science & Children*.
- **Dean, S.** & Gilbert, A. (2021). What scientists do: Engaging in science practices through a wonder-framed nature study. *Interdisciplinary Journal of Environmental and Science Education*, 17(4). https://doi.org/10.21601/ijese/11136
- **Dean, S. N.** (2020). National Park interpretation and place-based education: An integrative literature review. *Journal of Experiential Learning*. https://doi.org/10.1177/1053825920979626
- **Dean, S.** (2019). Seeing the forest and the trees: A historical and conceptual look at Danish forest schools. *International Journal of Early Childhood Environmental Education*, 6(3), 53-63. https://naturalstart.org/sites/default/files/journal/7._dean_formatted_draft_v2.pdf

Reports

- **Dean, S. N**. & Wenner, J. A. (2024). *College students need to play too! Understanding the issues and possibilities within college-aged play*. [White paper]. The American Association for the Child's Right to Play (IPA/USA).
- The Virginia Association for Environmental Education. (2021). *Environmental literacy plan template for Virginia school divisions*. https://vaee.wildapricot.org/resources/Documents/Virginia-Environmental-Literacy-Plan-Template.pdf

Book Chapters

Dean, S. (in press). Wonder walks as a nature-based teaching practice. In L. Madden (Ed.) *Starting Small*. Rowman & Littlefield Publishing Group.

Funded Grants or Scholarships

External

- Striniste, N., Hodges, E., Moser, K., & **Dean**, **S**. (2021). *Dominion Energy* awarded to NoVA Outside. Funded \$20,000.
- Wilson, S., Hodges, E., & **Dean, S.** (2020). *Dominion Energy* awarded to NoVA Outside. Funded \$5,000.

Dean, S. (2017). *100 Women Strong Grant* awarded to Piedmont Epicurean Agricultural Society. Funded \$9,000.

Internal

Dean, S., PI (2023). How do rural K-12 educators integrate the three dimensions of NGSS into outdoor learning? *Associate Dean of Research Grant*. (\$9,922).

Dean, S. (2021). Graduate Student Travel Fund through GMU.

Dean, S. (2021). GMU Graduate Scholarship, summer semester.

Dean, S. (2020). Professional Development Funds through GMU.

Dean, S. (2019). William B. Stapp Student Scholarship to attend NAAEE conference.

Dean, S. (2019). Graduate Student Travel Fund through GMU.

Unfunded

Dean, S., PI (2024). How do rural educators utilize place-based anchoring phenomena to teach the three-dimensions of NGSS? *OpenSciEd* (\$20,000).

SCHOLARLY PRESENTATIONS

Refereed National and International Conference Presentations

- Alston, D. M., **Dean, S.**, & Hawkins, J.* (Submitted). *Rehumanizing science education:*Exploring outdoor learning as an avenue towards holistic wellbeing. Paper presentation at the Association for Science Teacher Education Annual Conference. Long Beach, CA.
- **Dean, S.** (2024). *Nature's part of us: Exploring long-lasting impacts of Sit Spot.* Paper presentation at the North American Association for Environmental Education Annual Conference. Pittsburg, PA.
- **Dean, S.** (2024). Outdoor science learning in rural spaces: Examining educators' instructional approaches. Poster presentation at the North American Association for Environmental Education Annual Conference. Pittsburg, PA.
- **Dean, S.**, Gilbert, A., & Lane, J. (2024). "Science doesn't have to be scary": The accessibility of doing nature-based science. Paper presentation at the National Association for Research in Science Teaching Annual Conference. Denver, CO.

- **Dean, S.** & Gallifa, J. (2024). *Thinking integrally about environmental education: Examining science teachers' sensemaking*. Poster presentation at the Association for Science Teacher Education Annual Conference. New Orleans, LA.
- Gilbert, A., Byers, C., **Dean, S.,** Johnston, A, & Wood, N. (2023). *The potential of wonder in science teacher education: Conceptualizing the philosophical, pedagogical and research possibilities.* Themed paper set presentation at the Association for Science Teacher Education Annual Conference. Salt Lake City, UT.
- Gilbert, A. & **Dean**, S. (2022). *Using a wonder-based nature study to engage children in science practices*. Paper presentation at the Association for Science Teacher Education Annual Conference. Greenville, SC.
- **Dean, S.** & Gilbert, A. (2022). A collective joy and wonder: Pathways towards nature partnerships. Roundtable at the North American Association for Environmental Education Annual Conference. Tucson, AZ.
- **Dean, S.** (2022). *Windswept: The best kind of overwhelmed.* Virtual poster presentation at the International Congress of Qualitative Inquiry.
- **Dean, S.** (2021). Place-based teacher education: A self-study of my own experiential learning journey. On-demand virtual poster presentation at the North American Association for Environmental Education Annual Conference.
- Gilbert, A. & **Dean, S.** (2021). Wonder and emergent science practices: Connecting with and through nature. On-demand virtual poster presentation at the North American Association for Environmental Education Annual Conference.
- **Dean, S.** & Gilbert, A. (2020). *Using wonder to facilitate nature engagements: A research-grounded pedagogical approach.* Virtual presentation at the North American Association for Environmental Education Annual Conference.
- **Dean, S.** (2019). Cultural constructivism: Understanding the context for nature-knowing. Panel discussion presentation at the North American Association for Environmental Education Annual Research Symposium. Lexington, KY.

State/Regional Conference Presentations

Dean, S. (2023). *Pathways and possibilities within nature-based science: Teacher joy.* Paper presentation at the Mid-Atlantic Regional Annual Conference of the Association of Science Teacher Education. Kingsport, TN.

Gilbert, A. & **Dean, S.** (2022). *The impact of wonder-infused pedagogy on classroom community*. Paper presentation at the Mid-Atlantic Regional Annual Conference of the Association of Science Teacher Education. Black Mountain, NC.

Invited Presentations

- Guest speaker for UNC Charlotte's Elementary Science Methods class on environmental justice (April 2024).
- Guest speaker for Teaching Fellows professional development (March 2024).
- Guest speaker for Qualitative Methods in Educational Research, *EDRS 812*, at George Mason University. Virtual (January 2024).
- Guest lecturer for Critical Theory course at Johns Hopkins University. Virtual (April 2024)
- Guest speaker for Advanced Studies in the Teaching of Secondary School Science, *EDSC* 8430. Virtual (March 2023).
- Guest speaker for Narrative Research Methods, *EDRS 836*, and Qualitative Methods in Educational Research, *EDRS 812* (Spring 2022).
- *The Basics of Outdoor Teaching and Learning*. Professional development for Arlington County Public Schools educators. Arlington, VA (August 2022).
- *NoVA Outside Educators Workshop Series*. Virtual presentation and facilitation of professional learning over two modules in a four-week series (Fall 2021).
- A Literature Synthesis of Outdoor Play Patterns. Virtual presentation at the Office of Student Scholarship, Creative Activities, and Research's (OSCAR's) Celebration of Student Scholarship. Fairfax, VA (Spring 2021).
- *Writing a first-rate conference proposal*. In-person workshop at Nuts and Bolts professional development conference hosted by George Mason University's PhD of Education Student Organization, Fairfax, VA (Spring 2019).

Awards and Honors

- Nominated for Outstanding Dissertation Award – College of Education and Human Development, George Mason University (2023).

TEACHING AND ADVISING

University Teaching

Department of Teaching and Learning, Clemson University
EDEL 4510 Elementary Methods in Science Teaching
ED 8830 The Reflective Practitioner
IS 1020 Global Perspectives
EDEC 4200 Early Childhood Science

Fall 2023 – 2024 Summer 2024 Summer 2024 Spring 2024

College of Education and Human Development, George Mason University

ELED 553 Science Methods for the Elementary Classroom,

Teacher Residency Program

ELED 453 Science Methods for the Elementary Classroom

ELED 421 STEM in the Elementary Classroom*

Spring 2022

Fall 2021

Advising

Doctoral Committees

Major Professor – In Progress

- Amanda Gladys, Teaching & Learning, Science Education
- Stephany Griffin, Teaching & Learning, Science Education

Committee Member – In Progress

- Ashley Hunter, Teaching & Learning, Science Education

Professional Development Programs

- Attended day-long grant writing workshop hosted by Clemson University (Jan 2024).
- Attended multi-day South Carolina Teacher as Researcher workshop (Fall 2023).
- Designed, coordinated, and led professional development for Arlington County Public Schools on *The Basics of Outdoor Teaching and Learning* (2022).
- Developed and facilitated two separate four-part environmental educator workshop series for NoVA Outside (2021).

SERVICE

Service to Field of Scholarship

Manuscript Reviewer

- School Science and Mathematics (2024-present)
- Early Childhood Education Today, 15th Edition (2024)
- *Journal of Adventure Education and Outdoor Learning* (2024-present)
- *Journal of Experiential Education* (2021-present).
- Ecology and Evolution (2021).

Conference Proposal Reviewer

- North American Association for Environmental Education (2024).
- National Science Teaching Association (2023).
- National Association for Research in Science Teaching (2023).
- Association for Science Teacher Education (2023).
- Natural Start Alliance (2020).

Service to Profession

Membership in Professional Organizations

- Member of North American Association for Environmental Education (2019 present)
- Member of Environmental Education Association of South Carolina (2023 present)
- Member of National Science Teaching Association (2021 present)
- Member of Association for Science Teacher Education, including Mid-Atlantic region chapter (2021 present)
- Member of National Association for Research in Science Teaching (2023 present)
- Member of Play-Based Coalition (2023 present)
- Member of Virginia Association for Environmental Education (2019 2022)
- Member of Northern Virginia Outside (2019 2023)

Other International, National, and Regional Service

- Co-designed watershed education and outreach curriculum with Greenville Water (Nov 2023-present)
- Member of Transnational Dialogue for Early Childhood Education for Sustainability (2020-present).
- Vice chair of Northern Virginia Outside (2020-2022).

Department Service

Teaching and Learning, Clemson University

- Science Ed Lab Group faculty leader (2023-present).
- Early Childhood Education and Special Education joint certification program development committee (Oct 2023-present).

College Service

College of Education, Clemson University

- Teaching Fellows Advisory Committee (2024-present)
- Clemson College of Education Graduate Student Conference roundtable faculty discussant (Feb. 2024)

University Service

George Mason University

- Contributor to *PhD in Education Student Organization* (2019-2022).