

Courtney D. Giles (she/her)

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EDUCATION

2007 Chemistry BS & Environ. Geochem. Sci. BA, State University of New York, New Paltz

2012 Civil & Environmental Engineering PhD, University of Vermont, Burlington VT

EXPERIENCE

2026-present	Associate Dean for Academic Affairs and Student Success Director of the Office for Student Success College of Engineering and Mathematical Sciences University of Vermont
2024-26	Associate Dean for Academic Affairs, UVM CEMS
2019-24	Director of Curricular Enrichment, UVM CEMS
2024-present	Senior Lecturer, Civil & Environmental Engineering, UVM CEMS
2019-24	Lecturer, Civil & Environmental Engineering, UVM CEMS
2017-19	Engineering Labs Manager, UVM CEMS
2012-16	Postdoctoral Research in Environmental Phosphorus Biogeochemistry James Hutton Institute, UK University of Vermont, Burlington VT

TEACHING

CEMS 1500	First Year Seminar. Yr 1 requirement, CEMS majors
CEE 1100	Statics. Yr 2 requirement for Mechanical, Civil, and Biomedical Engr B.S.
CEE 3530	Environ. Quantitative Analysis. Yr 3 requirement for Environ. Engr B.S.
CEMS 6010	Research Methods, Ethics, and Communication. Graduate elective.

SERVICE

University	
2026	Online Delivery of Undergraduate Majors Working Group
2026	Co-Location Task Force

2025-26	AskUVM Working Group, Student Feedback and Assessment Lead
2024-26	Writing in the Disciplines Advisory Board
2024	Catamount Core Curriculum Committee Working Group
2023-25	International Faculty Advisory Board
2022-23	International Education: External Programs, Exchange Programs, and Study Abroad Parity Working Group
2022-23	Catamount Global TREK Advisory Committee
2021-23	Salt Mitigation Task Force
2019-22	Center for Teaching and Learning Advisory Board
2020	General Education Committee for Culminating Experience / Capstone

College

2019-present	Pedagogical Innovation Committee
2019-present	CEMS Curriculum Committee

Department

2023-present	Undergraduate Affairs Committee, Civil & Environmental Engineering
2019-present	Environmental Engineering Curricular Sub-committee
2021	Communication in Undergraduate Curricula Working Group

SELECTED HONORS AND AWARDS

2025	Outstanding Campus Representative – New England, American Society for Education (ASEE)
2025	Best Paper, Mechanics Division, ASEE
2024	Outstanding New Civic Learning Faculty of the Year Award
2023	Higher Education Resource Services (HERS) Leadership Institute Award
2021	CEMS Professional Service Award
2018, 19	Lab Safety Partnership Award, UVM Risk Management & Safety
2016	Travel award, FAPESP-British Council Workshop: “Managing the Rhizosphere to Alleviate Food Poverty”. ESALQ, Piracicaba, Brazil
2015	Travel award, 9 th International Symposium of the International Society of Root Research, ‘Roots Down Under’. Canberra, Australia
2015	Travel award, FAPESP-British Council Workshop, “Environmental and metabolic control of plant growth and development”. UNICAMP Campinas, Brazil
2014	Young Scientist Award, 5 th International Symposium on Phosphorus in Plants and Soils/4 th Sustainable P Summit. Montpellier, France
2011	UVM School of Engineering, Graduate Teaching Assistant of the Year Award

RESEARCH / GRANTS

2026-31	Pending: <i>NSF-IUSE: Collaborative Research: Developing Research-based Manipulative Augmented Reality Visualization to Learn Spatially (MARVLS) for use in Engineering Programs</i> . PI: Morphew (Purdue), McColgan (Siena College), Giles (UVM); \$2M (\$500K UVM)
2026-27	<i>NSF-ERI: Towards Dynamic Life Cycle Assessment of Renewable Energy Hub Systems</i> . PI: Hinkelman; Senior Personnel: Giles; \$200K

- 2023-26** *NSF-IUSE Learning Map Framework to Align Instruction and Improve Student Learning in STEM Course Sequences*. PI: Giles; Co-PIs: P. Wijesinghe, L. Medsker, V. Seneviratne; \$395K
- 2023-26** *The Classroom as Research: The Scholarship of Teaching and Learning* (UVM Office of the Provost and Senior Vice President, Faculty Professional Advancement Events); Giles, Harrington, Parker; \$30K
- 2022-23** *UVM Salt Mitigation Task Force Co-Curricular Projects* (UVM Sustainability Fund); PI: Lens; Co-PIs: Giles, P. Campo, L. Wood, K. Stepenuck, E. Berliner; \$40K
- 2021-22** *UVM Salt Mitigation Task Force Co-Curricular Projects* (UVM Sustainability Fund); PI: Giles; Co-PIs: J. Lens, P. Campo, L. Wood, K. Stepenuck, E. Berliner; \$40K

PUBLICATIONS [Google Scholar](#)

Giles, CD, LR Medsker, MD Neumann, VA Seneviratne, P Wijesinghe (in review). Leveraging Faculty Collaboration and Visual Learning Maps to Promote Student Success and Knowledge Retention Across Course Sequence. *Journal of Faculty Development*.

Giles, CD, S Boland Chira, D Garrett-Ostermiller, J Garrett-Ostermiller, S Harrington, G Sherriff, A Humphries, J Thompson (2026). Exploring Campus Perceptions of GenAI through a Civil Learning Project for First-Year Engineering and Mathematical Sciences Students. *American Society for Engineering Education Annual Conference Proceedings*, 21-25 June 2026, Charlotte NC. Paper ID: #52106.

Dewoolkar, M, K Johnson, JE Lens, JS Buzas, CD Giles, P Wijesinghe (2026). Analysis of Student Reflections from Civil and Environmental Engineering Capstone Courses to Evaluate Service-Learning Experiences and their Effectiveness. *Journal of Civil Engineering Education* 152 (4). doi/10.1061/JCEECD.EIENG-2256

Massam, M., D Menezes-Blackburn, MA Kasbi, C Wearing, M Stutter, CD Giles, et al. (2026). Soil DNA-Phosphorus: Method Optimization and Application Across UK Soils. *J. Agricultural and Marine Sciences*, 31(1):7.

Wijesinghe, P, VA Seneviratne, LR Medsker, CD Giles, M Ottati (2025, Best Paper Mechanics Division). Using Learning Maps and Bloom's Taxonomy to Develop a New Instrument to Assess Knowledge Transfer from Physics to Statics Courses. *American Society of Engineering Education, Annual Conference and Exposition, Montreal QC. June 23-25, 2025*.

Jangraw, D, CD Giles (2025) The "Ticket Home": A Scalable Survey System for Rapidly Identifying Barriers to Learning. *American Society of Engineering Education, Annual Conference and Exposition, Montreal QC. June 23-25, 2025*

Giles, CD, P Wijesinghe, VA Seneviratne, LR Medsker (2024). Learning Map Framework to Align Instruction and Improve Student Learning in a Physics-Engineering Mechanics Course Sequence. *American Society for Engineering Education Annual Conference Proceedings*, 23 – 26 June 2024.

Giles, CD (2023) Definitions of Success and Sense of Preparedness Among Engineering and Mathematical Sciences Students in a College-Wide First Year Seminar Course. 2023 ASEE Peer, Annual Conference Proceedings, 28 June 2023.

Giles, CD (2021) Widening the Umbrella in the Midst of a Pandemic: Mathematics, Statistics, and Computer Science Students Join First Year Engineering Design Course. 2021 ASEE Northeast Section Annual Meeting, 14 October 2021.

Liu, Z, R Worley II, F Du, CD Giles, M Dewoolkar, D Huston, T Tan (2020). Avalanches during flexure of early age basalt fiber reinforced concrete beams. Journal of Cleaner Production 279: 123695. doi: 10.1016/j.jclepro.2020.123695.

Liu, Z, R Worley II, F Du, CD Giles, M Dewoolkar, D Huston, T Tan (2020). Avalanches during flexure of early-age steel-fiber reinforced concrete beams. Materials & Structures 53: 160. doi: 10.1617/s11527-020-01520.

Giles, CD, AE Richardson, BJ Cade-Menun et al. (2018). Phosphorus acquisition by citrate- and phytase-exuding *Nicotiana tabacum* plant mixtures depends on soil phosphorus availability and root intermingling. Physiol Planta doi: 10.1111/ppl/12718.

Parker, SP, W Bowden, MB Flinn, CD Giles, et al. (2018). Effect of particle size and heterogeneity on sediment biofilm metabolism and nutrient uptake scaled using two approaches. Ecosphere 9: 1-18. doi: 10.1002/ecs2.2137.

Mezeli, MM, D Menezes-Blackburn, TS George, CD Giles et al. (2017). Effect of citrate on *Aspergillus niger* phytase and catalytic activity in soil. Geoderma 305: 346-353. doi: 10.1016/j.geoderma.2017.06.015.

Giles, CD, L Dupuy, G Boitt et al. (2017). Root development impacts on the distribution of phosphatase activity: Improvements in quantification using soil zymography. Soil Biol Biochem 116. doi: 10.1016/j.soilbio.2017.08.011.

George, TS, CD Giles, D Menezes-Blackburn et al. (2017). Organic phosphorus in the terrestrial environment: a perspective on the state of the art and future priorities. Plant Soil 426: 191-208. doi: 10.1007/s11104-017-3391-x.

Menezes-Blackburn, D, CD Giles, T Darch et al. (2017). Opportunities for mobilizing recalcitrant phosphorus from agricultural soils: a review. Plant Soil 427: 5-16. doi: 10.1007/s11104-017-3362-2.

Darch, T, CD Giles, MSA Blackwell et al. (2017). Inter- and intra-species intercropping of barley cultivars and legume species, as affected by soil phosphorus availability. Plant Soil 427: 191-208. doi: 10.1007/s11104-017-3365-z.

Giles, CD, TS George, LK Brown et al. (2017). Linking the depletion of rhizosphere phosphorus to the heterologous expression of a fungal phytase in *Nicotiana tabacum* as revealed by enzyme-labile P and solution ³¹P NMR spectroscopy. Rhizosphere 3: 82-91. doi: 10.1016/j.rhisph.2016.11.004.

Menezes-Blackburn, D, C Paredes, H Zhang, CD Giles et al. (2016). Organic Acids Regulation of Chemical-Microbial Phosphorus Transformations in Soils. *Environ. Sci. Technol.* 50: 11521-11531. doi: 10/1021/acs.est.6b03017.

Giles, CD, TS George, LK Brown et al. (2016). Response-based selection of barley cultivars and legume species for complementarity: Root morphology and exudation in relation to nutrient source. *Plant Sci.* 255: 12-28. doi: 10.1016/j.plantsci.2016.11.002.

Giles, CD, TS George, LK Brown et al. (2016). Does the combination of citrate and phytase exudation in *Nicotiana tabacum* promote the acquisition of endogenous soil organic phosphorus? *Plant Soil* 412: 43-59. doi: 10.1007/s11104-016-2884-3.

Alegria-Terrazas, R, CD Giles, E Paterson, S Robertson-Albertyn, S Cesco, T Mimmo, Y Pii, D Bulgarelli (2016). Plant-microbiota interactions as a driver of the mineral turnover in the rhizosphere. *In: Advances in Applied Microbiology*. Elsevier.

Menezes-Blackburn, D, H Zhang, M Stutter, CD Giles et al. (2016). A Holistic Approach to Understanding the Desorption of Phosphorus in Soils. *Environ Sci Technol.* doi: 10.1021/acs.est.5b05395.

Isles, PDF, CD Giles, TA Gearhart, Y Xu, GK Druschel, AW Schroth, A.W. (2015). Dynamic internal drivers of a historically severe cyanobacteria bloom in Lake Champlain revealed through comprehensive monitoring. *J Great Lakes Res.* 41(3): 818-829. doi: 10.1016/j.jglr.2015.06.006.

Schroth, AW, CD Giles, PDF Isles, Y Xu, Z Perzan, GK Druschel (2015). Dynamic Coupling of Iron, Manganese, and Phosphorus Behavior in Water and Sediment of Shallow Ice-Covered Eutrophic Lakes. *Environ Sci Technol.* 49(16): 9758-9767. doi: 10.1021/acs.est.5b02057.

Giles, CD, P Isles, G Druschel, AW Schroth (2015d). Phosphorus and metals mobility in the sediment-water continuum of a shallow, freshwater lake under stratified and mixed water-column conditions. *Biogeochem.* 127 (1): 15-34. doi: 10.1007/s10533-015-0144-x.

Giles, CD, L Hsu, M Hurst, AE Richardson, JE Hill (2015c). The role of *Pseudomonas* sp. gluconate production in the mineralization and bioavailability of calcium-phytate to *Nicotiana tabacum*. *Canadian J Microbiol.* 61(12): 885-97. doi: 10.1139/cjm-2015-0206.

Giles, CD, BJ Cade-Menun, JE Hill (2015b). The short-term transport and transformation of phosphorus species in a saturated soil following poultry manure amendment and leaching. *Geoderma.* 257-258: 134-141. doi: 10.1016/j.geoderma.2014.08.007.

Giles, CD, LG Lee, BJ Cade-Menun, JE Hill, G Druschel, AW Schroth (2015a). Characterization of Organic Phosphorus Form and Bioavailability in Lake Sediments using ³¹P NMR and Enzymatic Hydrolysis. *J Environ Qual.* 44:1-13. doi:10.2134/jeq2014.06.0273.

Giles, CD, BJ Cade-Menun (2014). Phytate in Animal Manure and Soils: Abundance, Chemistry and Bioavailability, Chapter 11. *In: Applied Manure and Nutrient Chemistry for Sustainable Agriculture*. He, Z, H Zhang (eds). Springer. ISBN 978-94-017-8806-9.

Giles, CD, L Hsu, M Hurst, AE Richardson, JE Hill (2014). Plant assimilation of phosphorus from an insoluble organic form is improved by addition of an organic anion producing *Pseudomonas* sp. *Soil Biol Biochem.* 68: 263-269. doi:10.1016/j.soilbio.2013.09.026.

Giles, CD, AE Richardson, G Druschel, JE Hill (2012). Organic Anion-Driven Solubilization of Precipitated and Sorbed Phytate Improves Hydrolysis by Phytases and Bioavailability to *Nicotiana Tabacum*. *Soil Sci.* 177 (10): 591-598. doi: 10.1097/SS.0b013e318272f83f.

Hill, JE, CD Giles (2011). Think Globally, Act Locally: Targeting the Rhizosphere to Control Soil Fertility and Improve Water Quality. American Geophysical Union, Hydrology Section. December 2011 Newsletter, pp. 28-30.

Giles, CD, BJ Cade-Menun, JE Hill (2011). The Inositol Phosphates in Manures and Soils: Abundance, Cycling, and Measurement. Can J Soil Sci. 91: 397-416. doi: 10.4141/cjss09090.

CONFERENCE PROCEEDINGS & PRESENTATIONS

2026 June 23 - Exploring Campus Perceptions of GenAI through a Civil Learning Project for First-Year Engineering and Mathematical Sciences Students. American Society for Engineering Education Annual Conference, First Year Programs Division, Charlotte NC.

2025 June 22 – Working with Learning Maps to (Re)Design Course Sequences. Facilitated Workshop. American Society for Engineering Education Annual Conference, Montreal QC, CA.

2024 June 28 - Learning Map Framework to Align Instruction and Improve Student Learning in a Physics-Engineering Mechanics Course Sequence. American Society for Engineering Education Annual Conference, NSF Grantees Poster Session, Portland OR.

2023 June 28 - Definitions of Success and Sense of Preparedness Among Engineering and Mathematical Sciences Students in a College-Wide First Year Seminar Course. 2023 ASEE Annual Conference, First Year Programs Division, Baltimore MD.

2021 October 14 – ‘UVM Salt Mitigation Task Force’ Video Presentation at Adirondack Champlain Region Salt Summit, Lake George NY.

2021 October 21 – American Society of Engineering Education, Northeast Section Meeting. Paper Presentation. Worcester Polytechnic Institute, Worcester MA.

2018 September 10-13 – ‘*Quantitative measurement of phosphatase activity distribution in the rhizosphere – impact of root hairs*’. Talk. Symposium on Phosphorus in Soils and Plants, Leuven, Belgium.

2016 May 25 – ‘*Complementary root exudation traits for improved acquisition of soil phosphorus*’. Talk. International Society of Root Research, Plant-Soil and Slope Interactions Workshop. Dundee, UK.

2016 February 11 – ‘*Complementarity and soil phosphorus acquisition by barley and legume varieties with variable root biochemical and physiological responses to phosphorus deficiency*’. Talk. The James Hutton Institute, Annual Barley Away Day. Birnam, UK.

2015 November 12. ‘*Characterization of phosphorus compounds in soil using solution ^{31}P NMR spectroscopy*’. Talk. British Society of Soil Science, autumn meeting of the South West Regional Discussion Group. Rothamsted Research North Wyke, Devon UK.

2015 October 6 – 9. (1) ‘*Complementarity and soil phosphorus acquisition by barley and legume varieties with variable root biochemical and physiological responses to phosphorus deficiency*’. Talk. (2) ‘*Complementarity in the acquisition of phosphorus among citrate and phytase exuding tobacco (*Nicotiana tabacum*) plants*’. Poster. 9th International Symposium of the International Society of Root Research. Canberra, Australia.

2015 July 5 – 10. (1) *'Temporal characterization of phosphorus forms, bioavailability, and mobility in Lake Champlain sediments'*. Talk. (2) *'Phosphorus transformations and mobility in the rhizosphere of phytase-exuding plants'*. Poster. (3) *'Short-term transport and transformation of phosphorus species from a poultry manure amended soil during leaching'*. Poster. Interactions of Soil Microorganisms and Organic Matter (ISMOM), Soil Interfaces for Sustainable Development Meeting. McGill University, Montreal, Canada.

2015 March 23 – *'We want all the phosphorus! Plant and microbial strategies for improving plant utilization of soil organic phosphorus'*. Talk. British Council – FAPESP Workshop: 'Environmental and metabolic control of plant growth and development'. Universidad Estadual de Campinas (UNICAMP), Campinas, Brazil.

2014 November 21 – *'Exploiting root exudation of organic acids and phytases to enhance plant utilization of soil phosphorus'*. Poster. The James Hutton Institute, Annual Barley Away Day. Birnam, UK.

2014 September 1-3 – *'Temporal and spatial studies of organic phosphorus cycling in sediments of a eutrophic bay in Lake Champlain, USA'*. Poster. Sustainable Phosphorus Summit, 5th International Symposium. Montpellier, France.

2014 September 1 – Young Scientists' Message to the 4th Sustainable Phosphorus Summit, Workshop Outcomes. Talk. Sustainable Phosphorus Summit, 5th International Symposium. Montpellier, France.

2014 August 26-29 – *'The role of plant and bacterial organic anion production in plant access to insoluble organic phosphorus'*. Poster. Phosphorus in Soils and Plants, 5th International Symposium. Montpellier, France.

2013 December 12 – *'The Use of Enzymatic Hydrolysis to Assess the Seasonal Mobility and Bioavailability of Organic Phosphorus in Lake Sediments'*. Poster. American Geophysical Union, Fall Meeting, San Francisco CA.

2013 February 5 – *'The Role of Plant and Bacterial Organic Anion Production in Plant Access to Insoluble Organic Phosphorus'*. Talk. Organic Phosphorus Workshop, Smithsonian Tropical Research Institute, Panama.

2013 February 4 – 6 – *'Characterization of Particulate and Sediment Phosphorus in a Hydrologic Transect of the Lake Champlain Basin: Phosphorus Species Analysis and Enzyme-Lability'*. Poster. Organic Phosphorus Workshop, Smithsonian Tropical Research Institute, Panama.

2012 November 27 & October 11 – *'Phosphorus in the Environment: Classes, Compounds, and Analysis'*. Guest Lecture Series, UVM School of Engineering, CE295-B: Phosphorus in the Environment.

2012 July 22 – 26 – *'Algal Availability of Sediment-Bound-Phosphorus Species in a Hydrologic Transect of the Lake Champlain Basin'*. Poster. Gordon Research Conference: The Metabolic Basis of Ecology, University of Maine, Biddeford ME.

2011 September 4-7 – *'Secreted organic anions from Pseudomonas spp. solubilize myo-inositol hexakisphosphate from goethite surfaces, thereby increasing the potential for assimilation of phosphorus by plants'*. Poster. 13th International Pseudomonas Conference. Sydney, Australia.

2011 October 21 – *'Optimizing Crop Productivity: The Role of Soil Bacteria in Plant Phosphorus Nutrition'*. Talk. UVM Board of Trustees Meeting, Burlington VT.

2011 April 26 – ‘*Utilization of Organic Anion-Producing Pseudomonads to Improve Plant Access to Mineral-Bound Phytate in Soils*’. Poster. UVM Graduate Student Research Symposium, Burlington VT.

2010 June 6 – 7 – ‘*Transformation and Leaching of Organic Phosphorus in a Poultry-Manure-Amended Vermont Soil*’. Poster. Lake Champlain Research Conference, Burlington VT.

2009 November 1 – 5 – ‘*Leachate Phosphorus Fractionation Study of a Poultry-Manure-Amended Vermont Soil*’. Talk. Soil Science Society of America Annual Meeting, Pittsburgh PA.

2009 August 16 – 20 – ‘*Phosphorus Mobility and Transformation in a Poultry Manure-Amended Soil Tracked Over Time and Depth*’. Talk. ACS National Conference, Washington D.C.

FACULTY DEVELOPMENT

Coordinated Workshops, Retreats, Book Groups, and Trainings

2026	Mathematics Education in the Age of AI (virtual workshop for Math and Stat faculty) with Candace Walkington, Southern Methodist University
2025	Learning Maps Workshop, ASEE National Conference, Montreal QC
2025	CEMS Spring Retreat: Disciplinary integration of AI in the Curriculum
2024	UVM First-Generation Faculty Experience, Panelist
2024-26	UVM Scholarship of Teaching and Learning Symposium
2024	CEMS Spring Retreat: Inclusive Excellence Updates and Progress
2023	STEM Teaching Slam and Student Engagement Workshop with Scott Auerbach, UMass Amherst, at CEMS Spring Retreat, May 2023
2023	CEMS Integrated Concentration in Science Learning Community Meetings (3)
2022	TEACH Faculty Round Table: Brightspace Transition
2022	<i>Teaching with Case Studies</i> with Scott Auerbach UMass Amherst iCons
2022	TEACH Faculty Round Table: Physics Dept Welcome
2022	CEMS Graduate Student DEI Training
2022-23	CEMS Graduate Student <i>Leading an Effective Lab Session</i> workshop
2021-26	CEMS Peer Mentor, Student Leadership Retreat Sessions
2022	Engaging in the Scholarship of Teaching and Learning Book Group
2022	TEACH Faculty Round Table: Pandemic Teaching
2022	Kroepsch-Maurice Awardees: CEMS Faculty Panel Discussion
2022	CEMS Assessment Retreat
2021	<i>Designing, Managing, and Assessing Student Teams</i>
2021	<i>Academic Integrity in CEMS: Current Practices and Future Needs</i>
2021	Cheating Lessons Book Group
2021	<i>How to Avoid Cheating</i> , Jen and Deanna Garrett-Ostermiller CTL
2021	<i>Cheating with Chegg</i> , Jen and Deanna Garrett-Ostermiller CTL
2021	<i>Keeping it Real in College</i> with Scott Auerbach, UMass Amherst iCons
2021	<i>Introduction to Community Engaged Learning</i> , Susan Munkres
2021	<i>Active Learning for Busy Skeptics</i> with Mike Prince, Bucknell University
2021	<i>Teaching Backwards</i> with Mike Prince, Bucknell University
2021	<i>Practical Introduction to Problem & Project-based Learning</i> with Mike Prince
2021	<i>Inclusive Teaching Practices</i> with Holly Buckland-Parker CTL
2021	TEACH Faculty: Tips for Remote Finals and Alternative Assessments
2021	TEACH Faculty: What teaching looks like for me this semester
2021	<i>Humanizing Online and Remote Classrooms</i> with Christa Hagan-Howe
2020	<i>CEMS Classroom Technology: Applications for Different Modalities</i>

2020	<i>Remote and Online Assessment Tools: Blackboard and Respondus</i>
2020	<i>Screencasting Tools: Screencast-o-matic 101</i>
2020	CEMS Emergency Remote Instruction Drop-in Sessions
2020	<i>iClicker and iClicker Cloud</i> with Jen Garrett-Ostermiller CTL
2020-23	CEMS Teaching Support Drop-in Sessions
2020-23	CEMS New Faculty Teaching and Learning Orientation
2019	<i>Not All Active Learning is Created Equal</i> , A. Murray-Close, H. Buckland-Parker
2019	<i>Best Practices in Video and Screencasting</i> with Jen Garrett-Ostermiller CTL
2017-18	CEMS Laboratory Safety Day
2016	International Organic Phosphorus Workshop, UK
2012	VT-EPSCoR Research on Adaptation to Climate Change, Seminar Series

PROFESSIONAL DEVELOPMENT ATTENDED

2026	Five Paths to Leadership, UVM Division of Faculty Affairs
2025-26	Professional and Leadership Development Series, UVM DOFA
2023-24	Higher Education Resource Services (HERS) Leadership Institute
2023	UVM Professional and Continuing Education Summit
2023	Teaching in the Inclusive Classroom Workshop
2023	How to Engineer Engineering Education, 3-day Course, Bucknell University
2023	Aberdeen-UVM Leadership Exchange Program
2023	Navigating Differences in Teaching STEM Workshop Series, AAAS
2022	Brightspace Essentials, UVM CTL
2022	ASEE Essentials of Effective NSF Educational Proposal Preparation Course
2022	UVM Enrollment Management Summer Academy
2022	National Survey of Student Engagement: Using UVM Student Data for Teaching
2022	UVM Scholarship of Teaching and Learning Research Design Workshop
2022	Project-based Learning: Strategies for Successful Teamwork, Kristin Wobbe WPI
2021	UVM Equity-Centered Trauma-Informed Education Book Group
2021	ASEE First Year Engineering Experience Online Conference
2021	National Effective Teaching Institute 2B Online Course
2021	Inclusive STEM Teaching Project MOOC
2021	Contemplative Practices for Anti-Racist Education, Dr. Kamilah Majied
2021	UVM Community Engaged Learning Faculty Fellows Program
2020	UVM Pivotal Pedagogy Workshop Series
2020	Teaching & Learning in the Diverse Classroom MOOC
2020	UVM Academic Assessment Training
2020	National Effective Teaching Institute 1A, San Diego CA
2019	Alan Alda Communicating Science Workshop, Burlington VT
2018	Machine Safeguarding Seminar, Rockford Systems LLC, IL
2016	Winning Research Funding, James Hutton Institute, Scotland
2015	Next Gen. Sequencing, James Hutton Institute, Scotland
2015	Scientific Writing for Publication. James Hutton Institute, Scotland
2012	NSF Communicating Science Workshop, Burlington VT