



EDUCATION & CERTIFICATION

Certification, New Hampshire Secondary Life Science (7-12)	(Current)
Master of Education, University of New Hampshire, Durham, NH <i>Action Research, Using Google Apps for Education to Enhance Student-Student Collaboration and Teacher-Student Communication at Oyster River High School</i>	(May 2012)
Master of Science in Natural Resources, University of New Hampshire, Durham, NH	(September 2006)
Bachelor of Science in Resource Ecology, Magna Cum Laude, University of Vermont, Burlington, VT	(May 2004)
"From Mountain to Fjord" study abroad program, Hogskulen i Sogn og Fjordane, Sogndal, Norway	(Fall 2002)

RELEVANT EXPERIENCE

Montessori & Science Education Consultant (projects with NH Charitables Foundation, University of New Hampshire, individual families)	(September 2019-Present)
Homeschool Preschool/Kindergarten (ages 0-5, all subjects)	(July 2019-Present)
Mountain Village Charter School Staff (Nature Camp Lead Instructor, Substitute, Afterschool Program Staff), Plymouth, NH	(June 2019-September 2020)
Hollis Montessori Adolescent Guide (Science, Social Studies, Reading, Human Development, Algebra, Micro-Economy, Physical Education), Hollis, NH	(August 2015-2019)
Conservation Commission-School Partnership Program Coordinator & Science Education Consultant , New Hampshire Association of Conservation Commissions, Concord, NH	(September 2016-2018)
High School Science Teacher (Biology, Forensics, Environmental Science), Sanborn Regional High School, Kingston, NH	(September 2012-2015)
Project Coordinator & Curriculum Developer , GLOBE Carbon Cycle Project, Complex Systems Research Center, UNH, Durham, NH	(July 2006-August 2012)
Trainer of Teachers & Trainers , GLOBE Carbon Cycle curriculum	(2006-2015, 2017, 2020)
Girl Scout Troop Leader , (grades 6-12), Girl Scouts of the Green and White Mountains	(2009-2017)
NASA Research Graduate Fellow , UNH, Durham, NH	(August 2004 – May 2006)
Teaching Assistant , Forest Ecosystems and Environmental Change, UNH, Durham, NH	(Fall 2005)
Environmental Educator , Pease Mountain Internship, Charlotte School, Charlotte, VT	(Fall 2001)

ACADEMIC SKILLS

Curriculum Development

- Development of Montessori homeschool preschool program for my children
- Collaborated, developed and implemented integrated project-based curriculum for Montessori students (7-9th grade) in the subjects of Reading, Creative Writing, Earth & Human Studies, Human Development, Physical Expression & Creative Expression
 - Forests, Government, Energy, Hollis History, Matter, Cities, Water, Markets & Trade, Food (12 week terms)



- Assisted students in the development & management of their Sunny Orchard micro-economy business
- Coordinated with community members and local organizations in order to help students make connections between the curriculum and the real world (conservation commissions, parks and rec departments, USDA Forest Service, UNH Cooperative Extension, NH Department of Agriculture, UNH, local lake, pond and river associations)
- Collaborated, developed and implemented curriculum in high school Biology, Forensics and Environmental Science
 - Uses current NH State Science Competencies aligned to NGSS performance expectations
 - Includes quality performances assessments in process of approval for PACE <http://education.nh.gov/assessment-systems/pace.htm>
 - Align formative & summative rubrics that measure science content and 21st century skills
- Created project-based interdisciplinary units that cross Biology, English and Civics/Economics
 - Food, Outbreaks, Diversity & Equality, Ecology (Invasive species, Water Quality, Open Spaces)
- Adapted UNH Browne Center leadership manual to be used for the Sanborn sophomore advisory program
- Design and implement carbon and climate teacher professional development workshops from 1hr to 5days
- Developed lesson plans for Girl Scout meetings around girl-selected topics (6th-12th grade), relevant issues in Girl Scouting, and available Girl Scout programs (badges, journeys, awards)
- Collaborated with international scientists and educators to develop science curriculum for 7-12 grade students based on carbon cycle research as part of international GLOBE Program
- Created a chapter for Earth Exploration Toolkit <https://serc.carleton.edu/eet/globecarbon/index.html>
- Assisted in design of in-class and take-home assignments for UNH undergraduate course

Leadership

- Initiated a reciprocity of learning with the Montessori of the Berkshires adolescent community
- Guided students to effectively lead their trimester student-parent-teacher conferences
- Facilitator for PLCs (Biology and an interdisciplinary pod)
- Coordinator of the GLOBE Carbon Cycle Project
 - Organized and facilitated meetings involving project's scientists and educators
 - Supported teachers as they piloted GLOBE Carbon activities: phone and email contact, visit classrooms, provide guest lectures, assist in implementation planning, gather evaluative feedback
- Educated teachers and teacher trainers about the carbon cycle curriculum, including techniques to help strengthen skills in scientific inquiry, systems thinking, and research
- Supervision of up to 5 camp staff members - facilitation of goal setting/evaluation and conflict resolution
- Supported Girl Scouts in team building, conflict resolution, self-awareness, leadership, and encourage dedication to service and helping others through weekly meetings and weekend outings
- Led several girl scout trips to backcountry areas, following *low impact and leave no trace principles*

State and National Committee Work

- New Hampshire Department of Education - NH State Science Competencies
- NEASC Visiting Committee
- New Hampshire State Environmental Literacy State Plan
- Advisory Committee for Project Learning Tree guide on Southeastern Forests and Climate Change

Grant Writing

- EPA, Project Learning Tree & NH Association of Conservation Commissions Partnership Program
- National Science Foundation-GLOBE Carbon Cycle grant & grant extension
- Sanborn Seminary Grants (Food Unit Pilot, Development of Environmental Science Curriculum)
- School ACP Grant (Environmental Science Outdoor Equipment, Sophomore Advisory Leadership Development)

EXTENDED PROFESSIONAL DEVELOPMENT

Montessori Adolescent Workshops with Great Work Inc (April-July)

(Spring/Summer 2020)

- The Math Institute with Mike Waski – weekly webinars diverse topics (April-June)
- Adolescent Introductory Workshop - 35hr intensive connecting theory and practice

Homeschool of the Redwoods – Montessori Homeschool Course for ages 2.5-6 (8 weeks)

(Spring 2020)

- Deepened understanding of Montessori theories and methods



- Explored and discussed age appropriate activities for 2.5-6 year olds
- Practiced giving traditional Montessori lessons using play, enticement, and child interest

Montessori Observations & Discussion (October-March) (2018-2019)

- Learned a variety of **observation techniques** for students and colleagues
- Documented and shared observations
- Analyzed observations with colleagues and mentors to improve teaching

Experiential Education Debriefing Tools (2 days) (July 2018)

- Learned and practiced using a range of strategies to help students analyze and discuss their experiences after participation in group learning activities

Montessori Refresher Course: The Adolescent Supported by the Natural Environment (3 days) (February 2018)

- Connected Montessori's observations about adolescents to current education research
- Examined the importance of adolescents working, playing and exploring the outdoor environment

Adventure in the Classroom (3 days) (August 2017)

- Experienced a wide variety of team building activities that could be connected to classroom content & skills
- Discussed the importance of activity scope and sequence in order to build a trusting community

Positive Discipline for Montessori Classroom Teachers (2 days) (June 2016)

- Learned the primary principles of **positive discipline** and how to implement them with students
- Practiced principles using role playing, and discussed possible challenges and solutions

Institute for Nature Based Learning (10 days) (2013-2014)

- Focused on the ecology of forests in all seasons and across all disciplines
- Learned the basic tenants of successful **project-based learning**
- Worked with an interdisciplinary team from my school to develop a project-based unit on the impact of invasive species in our local forests

Seasons and Biomes: GLOBE Earth Systems Science Workshop (5 days) (July 2012)

- Learned GLOBE protocols for topics of phenology, hydrology, atmosphere, soil
- Used the Earth System as an integrating theme across lessons
- Practiced developing lessons that lead toward and **promote student research**

Systems Thinking and Dynamic Modeling for K-12 Education (3 days) (June 2012)

- Explored systems thinking and systems dynamics as a way of addressing common core and STEM
- Used system dynamics as a unifying theme- exploring complexity, interconnectedness, change over time

Curriculum Connections Through Schoolyard Investigations (5 days) (August 2006)

- Week-long intensive course: Project WET, WILD, Learning Tree, Home, and GLOBE
- Developed a curriculum unit for credit - Plymouth State University, Plymouth, NH

PUBLICATIONS

Sallade et al. (2012). University of New Hampshire GLOBE Carbon Cycle Project. <http://www.globe.gov>.
Burakowski et al. (*in progress*). A Season of Change. The American Biology Teacher

PRESENTATIONS

Montessori Schools of Massachusetts (2020)
New Hampshire Science Teachers Association (2007-2011, 2014-2015, 2017)
New Hampshire Association of Conservation Commissions Annual Meeting (2014, 2015, 2016, 2017)
National Science Teachers Association (2008, 2011, 2014, 2015)



Massachusetts Town Forests: Connecting Communities with Sustainable Forestry Conference (2014)
New Hampshire Lakes Association, Lakes Congress (2014)
UNH Cooperative Extension & NH Association of Conservation Commissions, Summer Field Training Series (2014)
GLOBE Annual Meeting (Thailand, Texas, South Africa, Canada, Washington D.C., Minnesota 2006-2012)
Northeastern Ecosystem Research Cooperative posters (2008, 2010)
GLOBE Europe Regional Meeting (Macedonia 2010)
New Hampshire Environmental Educators Conference (2009)
American Geophysical Union posters (2005, 2007, 2009)

NOMINATIONS & AWARDS

New Hampshire Environmental Educator of the Year, Nominee	(2014 – 2015)
SeaWorld Environmental Educator of the Year, Nominee	(2014 – 2015)
Rockingham County Woodland Owners Association Education Award	(2013)

OTHER EXPERIENCE

Protect Our Winters Volunteer, New England Local Alliance (2020-Present)

- Leadership team logistics and collaboration
- Event planning
- Partner outreach

Hollis Montessori 5K Race Director, Hollis, NH (2018)

Exeter Trail Race Director, Exeter, NH (2009 – 2019)

- Collaboration with acidotic Racing, LLC to host a trail race of 150-200 racers
- Coordinate race logistics including registration, timing, insurance, volunteers, first aid, land owner permissions, conservation commission approval, refreshments

Girl Scout Volunteer, Sprouts Environmental Education Program, Vermont Girl Scout Council (2001 – 2004)

Team Building Facilitator, Petra Cliffs Climbing Center and University of Vermont Adventure Ropes (2003 – 2004)

Residential Summer Camp Counselor, Swift Water Girl Scout Council, Camp Farnsworth, Thetford, VT (1999 – 2002)

TECHNICAL SKILLS

Google Apps for Education, Pinnacle Competency Grading System, Safety in the Science Classroom, basic computer modeling (STELLA), spreadsheet graphing, map and compass, GPS, aquatic & forestry measurement, backcountry hiking & camping, and skiing/avalanche safety, CPR & Wilderness First Aid (expired August 2020)

PERSONAL ATHLETIC PURSUITS

Rock climbing/bouldering, front country & backcountry skiing (telemark, alpine, x-country), yoga, hiking, backpacking, snowshoeing, trail running, circuit training, canoeing, kayaking, gymnastics (& coaching experience), ultimate frisbee, mountain biking