

LAURA HILL, PH.D.

Senior Lecturer

University of Vermont Plant Biology Department, 111 Jeffords Hall, Burlington VT 05405

Ph: 802-656-1134; FAX: 802-656-0440; Email: lhill@uvm.edu | Website: www.uvm.edu/~lhill

EDUCATION

- 08/2003 - 12/2008 **Ph.D. Biology, emphasis Ecology and Evolution**
“Ecological and evolutionary factors affecting population persistence of a globally threatened wetland plant, *Polemonium vanbruntiae* (Polemoniaceae),” University of Vermont; Burlington, Vermont 05405; Advisor: Dr. Alison K. Brody
- 08/1998 - 05/2001 **B.S. Environmental Biology, emphasis Humanities**
Undergraduate thesis: “Comparative sediment toxicity in 3 Maine estuaries,” Unity College; Unity, Maine 04988; Advisor: Dr. Emma Creaser

POST-DOCTORAL RESEARCH

- 06/2008 - 08/2009 Effects of forest management activities on the population persistence of rare plant Appalachian Jacob's ladder (*Polemonium vanbruntiae*) in the Green Mountain National Forest. *A Challenge Cost-Share Agreement (No. 08-CS-1109-2000-015) between the USDA Forest Service, Green Mountain and Finger Lakes National Forests and the University of Vermont Biology Department.*

TEACHING APPOINTMENTS

- 2015 – present **Senior Lecturer in Plant Biology, UVM**
- 2009 – 2014 **Lecturer in Plant Biology, UVM**
- 2009 **Lecturer (Adjunct), Principles of Biology, Plant Biology Department, UVM**
- 2004, 2007, 2008 **Graduate Teaching Fellow (GTF), Exploring Biology, Biology Department, UVM**
- 2006, 2007 **GTF, Ecology and Evolution, Biology Department, UVM**
- 2006 **GTF, The Human Body (online course), Biology Department, UVM**
- 2002, 2003 **GTF, Environmental Biology, Biology Department, UVM**

INSTRUCTED COURSES

- 2010 – present **PBIO004/Introduction to Botany**, introductory botany course for non-science majors
Topics covered include plants and people, overview of the plant body, cells and molecules, genetics and evolution, plant diversity, ecological interactions involving plants, and sustainable agriculture.
- 2009 – present **BCOR 011 Exploring Biology**, first-semester, introductory biology for first-year biological science majors
Topics covered in lecture include chemistry of life, cell structure/function/reproduction, molecular genetics, and plant and animal physiology.
- 2010 – present **BCOR012/Exploring Biology**, second-semester, introductory biology for first-year biological science majors.
Topics covered in lecture include the chromosomal basis of inheritance, life cycles, evolution, diversity of life, and ecology.
- 2016 – present **PBIO133/How Plants Can Save the World**, advanced elective botany course for life science majors.
One of humanity's challenges today is to build capacity to address global problems with sustainable solutions. The systems that sustain human wellbeing are at risk. These systems include, but are not limited to, health systems, food systems, social systems, environmental

- systems, and economic systems. This course argues that plants are at the crux of solving these complex problems. The overarching course question is the following: How can plants be used to design sustainable solutions to problems resulting from existing, unsustainable practices?
- 2011 – 2019 **BCOR 101/Genetics**, sophomore-level introductory genetics course for biological science majors
Topics include patterns of inheritance, molecular structure and replication of genetic material, molecular properties of genes, genetic technologies, and genetic analysis of individuals and populations.
- 2010 – 2019 **PBIO006/The Green World**, introductory botany course for non-science majors
Topics include how plants live, grow, and reproduce, how humans have used plants for food, medicine, clothing, and shelter, why plant biologists are concerned about invasive species and habitat fragmentation, how plants influence earth's climate, why different plant communities occur where they do.
- 2010 – 2016 **BIOL001/Principles of Biology**, summer session introductory biology for non-majors
Topics covered include chemistry of life, cell structure and function, cellular metabolism, cellular reproduction, genes and inheritance, and gene expression.
- 2011, 2019 **PBIO297/Advanced Undergraduate Research**, upper-level undergraduates gain research experience with a faculty mentor
Topics cover proposal and grant writing, experimental set-up and analysis, reading the peer-reviewed literature, and hands-on research experience in the field and lab.
- 2009 – 2011 **BIOL002/Principles of Biology**, second-semester introductory biology for non-majors
Topics covered include evolution, diversity of life, physiology and ecology.

PEER-REVIEWED PUBLICATIONS

- Hill, L.M.** (In press). Contemplative Pedagogy in Times of Grief and Uncertainty: Teaching in a Global Pandemic. *Journal of Contemplative Inquiry*.
- Natkin, L.W. and **Hill, L.M.** 2020. Faculty integration of sustainability learning outcomes into curriculum - A case study of a faculty learning community and teaching practices. *New Directions in Teaching and Learning*. Vol. 2020 Issue: 161, pp. 123-138. <https://doi-org.ezproxy.uvm.edu/10.1002/tl.20377>
- Hill, L.M.** and Wang, D. 2018. Integrating sustainability learning outcomes into a university curriculum - A case study of institutional dynamics. *International Journal of Sustainability in Higher Education*. Vol. 19 Issue: 4, pp. 699-720, <https://doi.org/10.1108/IJSHE-06-2017-0087>
- Hill Bermingham L.** and Brody, A.K. 2011. Pollen source affects female reproductive success and early offspring traits in the rare endemic plant *Polemonium vanbruntiae* (Polemoniaceae). *Plant Species Biology* 26, 244-253.
- Hill Bermingham, L.** 2010. Habitat type and deer herbivory influence long-term population dynamics of a rare wetland plant. *Plant Ecology*, 210, 359 - 378.
- Hill, L.M.,** Brody, A.K., Tedesco, C.L. 2008. Mating strategies & pollen limitation in globally threatened perennial *Polemonium vanbruntiae*. *Acta Oecologica*, 33, 314-323.

ADMINISTRATIVE EXPERIENCE

- 2020 – present Director, Contemplative Faculty Learning Community, UVM Center for Teaching and Learning
- 2017 – 2018 Co-Chair, Standard 8 *Educational Effectiveness* committee, and steering committee member for UVM's New England Commission on Higher Education (NECHE) 2018 accreditation

2015 – 2019	College of Agriculture and Life Sciences (CALs) Unit Assessment Coordinator
2014 – 2018	Co-chair, Sustainability Curriculum Review Committee, a subcommittee of Curricular Affairs and the UVM Faculty Senate
2014 – 2015	Interim College of Agriculture and Life Sciences (CALs) Co-Director of the Integrated Biological Sciences (IBS) Program
2013 – 2014	Co-chair, Sustainability General Education Learning Outcomes, ad-hoc committee of the UVM Faculty Senate

INVITED SEMINARS, WEBINARS AND WORKSHOPS

2020	Pivotal Pedagogy: How can Contemplative Pedagogy Benefit Faculty and Students in Challenging and Uncertain Times? Hosted by UVM's Center for Teaching and Learning, Burlington, VT.
2019	Sustainability across-the-curriculum: Learning from UVM. Hosted by University of Washington's Program on the Environment, Seattle, Washington.
2018	A learning-outcomes-based general education sustainability requirement, Curriculum for Sustainability webinar series: http://curriculumforsustainability.org/webinars/
2017	Integrating Sustainability Learning Outcomes into a University Curriculum - A Case Study of Institutional Dynamics workshop, Association for the Advancement of Sustainability in Higher Education (AASHE) conference, San Antonio, TX.
2012, 2015, 2017	Practices for Engaging Students: Just-in-Time Teaching and Peer Instruction. Peer Instruction Workshop Flipped Classroom series, Center for Teaching and Learning, UVM, Burlington, VT.
2017	Panelist: Reappointment, Promotion, and Tenure Review panel discussion, UVM, Burlington, VT.
2014 & 2016	Women in Science keynote address to area high school young women, their high school mentors, and their parents. Sponsored by UVM's College of Agriculture and Life Sciences.
2015 – 2016	Innovative Education in Higher Education, Sustainability General Education Requirements Campus Sustainability Leadership Certificate Program, UVM, Burlington, VT.
2015	Sustainability course design workshop, as part of the Sustainability Faculty Fellows retreat, UVM, Burlington, VT.
2015	Just In Time Teaching and Flipped Classroom techniques. Central Maine Community College faculty, Auburn, ME.
2012	Service teaching in plant biology: teaching science to non-science majors. Plant Biology Department Faculty Retreat, UVM, Burlington, VT.
2012	Introduction to Interactive Teaching: Just-in-Time-Teaching and Peer Instruction. Engaging Students in Large Enrollment Courses Workshop, Center for Teaching and Learning, UVM, Burlington, VT.

AWARDS, HONORS, FELLOWSHIPS AND SCHOLARSHIPS

2016	Environmental Protection Agency's (EPA) Environmental Merit Award
2014	Joseph E. Carrigan Award for Excellence in Teaching and Undergraduate Education
2009	Roberto Fabri Fialho Scholarship for dissertation research in the life sciences
2008	Graduate Teaching Assistant of the Year nominee, University of Vermont
2003 – 2008	Graduate Teaching Assistant Fellowship

2004 – 2006 Vermont NSF-EPSCoR Graduate Research Fellowship
 2004 Graduate College Summer Research Fellowship
 2001 Unity College, Humanities Award
 2001 Unity College Dean’s Award - Highest Honors
 1999 – 2001 Unity College Merit I and Presidential Scholarship

PROFESSIONAL DEVELOPMENT

2018 14th Annual Summer Session on Contemplative Learning in Higher Education, Smith College, Northampton, MA
 2013 Critical Thinking Seminar, Honor’s College University of Vermont, Burlington VT
 2013 Rethinking Teaching Majors Biology Workshop, Scottsdale, AZ
 2013 Excellence in Teaching: A Discussion with the Kroepsch-Maurice Award Recipients, Center for Teaching and Learning, Burlington VT
 2011 Syllabus Clinic Center for Teaching and Learning, Burlington VT
 2010 – 2011 Sustainability Faculty Fellow, University of Vermont
 2009 Getting started with Blackboard, Center for Teaching and Learning, Burlington VT
 2007 Introduction to EndNote, Center for Teaching and Learning, Burlington VT

MENTORING ACTIVITIES

2001 – present High school graduates in science careers & college programs, McNicholas H.S.
 2017 – 2019 Catamount Commitment program. UVM College of Agriculture and Sciences.
 2013 - 2015 Undergraduate research: “How predicted warming temperatures could affect the growth, fitness, and pollinator assemblage of the rare endemic Vermont plant *Polemonium vanbruntiae*” with Madeleine Hassett
 2013 Vermont State Science Fair (VSSMF) advisor, Burlington High School
 2011 Vermont Science Initiative (VSI), a professional education program for licensed teachers of grades K-8.
 2006 – 2008 NSF Interdisciplinary Training in Mathematics & Biology Program
 2005 – 2008 Undergraduate Research Apprenticeships
 2005 – 2008 Federal workstudy program

ACADEMIC SERVICE

2019 - present Faculty Associate, UVM Center for Teaching and Learning
 2018 - present Assessment Committee member, UVM Plant Biology Department
 2013 - present Member, College of Agriculture and Life Sciences Self-Designed Major Committee
 2015 - 2019 Member, Joseph E. Carrigan Award for Excellence in Teaching and Undergraduate Education awards committee
 2013 - 2019 Co-organizer; Plant Biology Undergraduate events
 2017 Member, College of Agriculture and Life Sciences Outstanding Alumni Award Selection Committee
 2017 Member, College of Agriculture and Life Sciences New Achiever Alumni Award Selection Committee
 2013 - 2014 Member, College of Agriculture and Life Sciences Curriculum Committee
 2011 - 2012 Teaching First-Year Students: a Faculty Resource Group Writing in the Disciplines, UVM Burlington VT
 2006 – 2007 Public Relations Committee, Graduate Student Senate, UVM

2007 Writing Across the Curriculum workgroup, Integrated Biological Sciences curriculum
2006 Co-Chair, Graduate Research Day Committee, UVM
2005 – 2006 Grad student representative, Transportation & Parking Services, UVM
2004 – 2005 Grad student representative, Financial & Physical Planning Committee, UVM

COMMUNITY SERVICE

2020 Volunteer Coordinator, Old North End Mutual Aid (ONEMA) for COVID-19
2014 - 2018 Vice-Chair, Flynn Avenue Cooperative Homes Board of Directors
2016 - 2017 Yoga instructor, Community vinyasa yoga (classes at no cost), Flynn Avenue Cooperative Homes
2015 - 2017 Member, Flynn Avenue Cooperative Homes Finance & Administration committee member
2008 – 2011 Member, Huntington Conservation Commission, Huntington, Vermont
2008 Office volunteer, The Nature Conservancy, Montpelier, Vermont
2008 Green Up Day volunteer, Huntington, Vermont
2006 and 2011 Ronald McDonald House volunteer, Burlington, Vermont

PROFESSIONAL SOCIETY MEMBERSHIPS

The Association for Contemplative Mind in Higher Education
Society for Science & the Public
National Association of Biology Teachers
Union of Concerned Scientists
Botanical Society of America
New England Botanical Club
Ecological Society of America
National Geographic Society

PEER-REVIEWED MANUSCRIPT REVIEWER SERVICES

International Journal of Sustainability in Higher Education
Ecology
Plant Ecology
Plant Biology
American Journal of Botany
Biological Conservation
Northeastern Naturalist
Acta Oecologica
American Midland Naturalist

TEXTBOOK AND ONLINE RESOURCE REVIEWER SERVICES

Wiley Publishers
Pearson Publishers
McGraw-Hill Publishers
WH Freeman Publishers