

JUSTINE E. WEBER

Utica College
Department of Biology
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EDUCATION

Ph.D. Candidate, Ecology

State University of New York College of Environmental Science and Forestry (SUNY-ESF), 2020 (expected)
Dissertation: Ecological drivers of marl fen vegetation: controls on the presence and abundance of rare species with a focus on Houghton's goldenrod (*Solidago houghtonii*)
Advisor: Donald J. Leopold, Ph.D.

B.S., Biology and Environmental Education

Messiah College, 2006
Pennsylvania Teaching Certification: Biology 7-12
Pennsylvania Teaching Certification: Environmental Science K-12

PROFESSIONAL APPOINTMENTS

Visiting Assistant Professor

Utica College, Department of Biology

2019-2020

Utica, NY

TEACHING

Visiting Assistant Professor

Utica College, Department of Biology

100-level Ecology lecture for nonmajors, new course, 2 semesters
100-level Ecology lab for nonmajors, new course, 2 semesters
200-level Research Methods course, writing-intensive, 2 semesters
400-level Senior Seminar for Biology program undergraduates, writing intensive, 1 semester

2019-2020

Utica, NY

Instructor and Coordinator

SUNY-ESF, Department of Environmental and Forest Biology

200-level Biodiversity Survey lecture course, required, 11 semesters
200-level Biodiversity Survey lab course, required, 11 semesters as secondary coordinator

2014-2019

Syracuse, NY

Teaching Assistant

SUNY-ESF, Department of Environmental and Forest Biology

200-level Biodiversity Survey lecture and lab course, 2 semesters
300-level Ecology of Mosses lecture and lab course, 1 semester
300-level Indigenous Issues and the Environment lecture course, 1 semester

2012-2013

Syracuse, NY

High School Science Teacher

Lancaster Mennonite High School

9th grade Environmental Science, redesigned curriculum, 8 semesters
10th grade Biology, 6 semesters
11th and 12th grade Wildlife Science, elective, 2 semesters
11th and 12th grade Advanced Environmental Science, elective, 1 semester

2006-2010

Lancaster, PA

MENTORING

Student Research

Chelsea Radford, SUNY-ESF undergraduate student (1 year, research credits, skills, and field training)
Morgan Couch, SUNY-ESF undergraduate student (1 year, research credits, skills, and field training)
Luria Lee, SUNY-ESF undergraduate student (1 year, research credits, skills, and greenhouse training)
Lindsay Windsor, SUNY-ESF undergraduate student (1.5 years; research credits, skills, and field training)
Baylee Earl, SUNY-ESF undergraduate student (4 months; research skills and field training)

Student Involvement

Head Coach, junior high field hockey, Lancaster Mennonite School
FFA Assistant Advisor, Lancaster Mennonite School
Envirothon Coach, Lancaster Mennonite School
Student Support Team member, Lancaster Mennonite School

OUTREACH AND ENVIRONMENTAL EDUCATION

Invited Instructor, Ecological Monitoring and Biodiversity Assessment SUNY-ESF, Cranberry Lake Biological Station	Summer 2020 Adirondack Park, NY
Invited Instructor: Living on the Wind, Migration and Monhegan II National Audubon Society, Hog Island Audubon Camp	2017 and 2018 Bremen, ME
Teaching Fellow: Graduate Assistant Colloquium on Teaching and Learning SUNY-ESF, Open Academy (Outreach Department)	2017 and 2018 Syracuse, NY
Naturalist Program Leader Millbrook Marsh Nature Center	2010-2012 State College, PA
Environmental Education Intern Edwin B. Forsythe National Wildlife Refuge	Summer 2006 Oceanville, NJ
Park Ranger Naturalist Intern Glacier National Park	Summer 2005 St. Mary, MT

RESEARCH

SUNY-ESF, Department of Environmental and Forest Biology <i>Dissertation Research</i> Plant ecology and conservation (<i>Solidago houghtonii</i>), Dr. Donald Leopold	2012-present Syracuse, NY
<i>Research Associate</i> Plant ecology and conservation (<i>Trollius laxus</i>), Drs. Sara Scanga (Utica College) and Donald Leopold	
The Pennsylvania State University <i>Research Technician</i> Forest songbird response to Marcellus shale-fracking infrastructure, Dr. Margaret Brittingham	2010-2012 State College, PA
<i>Research Technician</i> Grassland songbird response to agricultural land management, Dr. Margaret Brittingham	
<i>Lab Assistant</i> Carabid beetle weed seed granivory in agricultural systems, Dr. Robert Gallagher and PhD candidate Jeffrey Law	
<i>Research Technician</i> Grassland bird response to agricultural conservation practices, Dr. Margaret Brittingham	

FUNDED GRANTS and AWARDS

Research awards:

- \$2600 Wilford A. Dence Fellowship**, for achievements in natural history and wild life, **2019**
SUNY-ESF Department of Environmental and Forest Biology, first botany student to receive award
- \$100 Excellence in Applied Research Award**, nominated for rare plant conservation work, **2019**
SUNY-ESF Graduate Student Association
- \$2900 Maurice Alexander Graduate Award**, for wetland research, **2017**
SUNY-ESF Department of Environmental and Forest Biology
- \$149,600 Great Lakes Restoration Initiative, U.S. Fish and Wildlife Service, 2015**
J. Weber – lead author/researcher, D. Leopold – principal investigator on record
Range-wide status assessment of Houghton's goldenrod, with special emphasis on niche limits, demographic transitions, and population stability
- \$7370 Edna Bailey Sussman Foundation Fellowship**, for student summer research, **2015**
Edna Bailey Sussman Foundation

Travel awards:

- \$250 Student Travel Grant** for attendance to Northeast Natural History Conference, **2019**
SUNY-ESF Graduate Student Association
- \$250 Student Travel Grant** for attendance to Botany2017 (BSA annual meeting), **2017**
SUNY-ESF Graduate Student Association
- \$350 Student Travel Grant** for attendance to National Native Seed Conference, **2017**
SUNY-ESF Graduate School

PUBLICATIONS and TECHNICAL REPORTS

Manuscripts in preparation:

- Weber, J.** and D.J. Leopold. Germination experiments with Houghton's goldenrod (*Solidago houghtonii*):
Evaluating factors associated with population persistence. To be submitted to *Native Plants Journal* spring
2020.

Technical reports:

- Final Report to U.S. Fish and Wildlife Service**, with Dr. Donald Leopold, *April 2019*
Range wide status assessment of Houghton's goldenrod (*Oligoneuron [=Solidago] houghtonii*) with a special
emphasis on niche limits, demographic transitions, and population stability
Interim Reports: *2017, 2018*
- Final Report to U.S. Fish and Wildlife Service**, with Dr. Donald Leopold, *April 2016*
Restoring Critical Habitat, Mitigating Multiple Threats, and Evaluating Population Statuses for Bog Turtle,
Eastern Massasauga Rattlesnake, and Houghton's Goldenrod Co-occurring in a Single, Exceptional Marl Fen
Ecosystem, Bergen Swamp, Genesee County, New York
Interim Reports: *2014, 2015*
- Final Report to Edna Bailey Sussman Foundation**, *December 2015*
Range-wide status assessment of Houghton's goldenrod (*Oligoneuron houghtonii*) with a special emphasis on
niche limits, demographic transitions, and population stability
- Final Report to The Pennsylvania State University**, with Dr. Margaret Brittingham, *Fall 2012*
Recommendations for Rockview Property acquisitions as managed bird habitat

PRESENTATIONS and GUEST LECTURES

*undergraduate mentee

- April 2019 Weber, J and DJ Leopold. *Poster*. Evaluating reproductive niche characteristics of federally-listed Houghton's goldenrod to approximate range wide stability. *SUNY-ESF Student Spotlight on Research Symposium, Syracuse, NY*.
- April 2019 Crouch, M*, J Weber, SE Scanga, and DJ Leopold. *Poster*. Effect of gap position on *Trollius laxus* vigor. *SUNY-ESF Student Spotlight on Research Symposium, Syracuse, NY*.
- April 2019 Radford, C*, J Weber, SE Scanga, and DJ Leopold. *Poster*. Canopy gap effects on fecundity to biomass ratios and herbivory of spreading globeflower (*Trollius laxus* ssp. *laxus*). *SUNY-ESF Student Spotlight on Research Symposium, Syracuse, NY*.
- April 2019 Weber, J and DJ Leopold. *Poster*. Evaluating reproductive niche characteristics of federally-listed Houghton's goldenrod to approximate range wide stability. *Northeast Natural History Conference, Springfield, MA*.
- April 2019 Weber, J and DJ Leopold. *Oral Presentation*. Rediscovering our species sense: developing natural history appreciation and skill sets in undergraduate students. *Northeast Natural History Conference, Springfield, MA*.
- March 2019 Weber, J. *Guest Lecture*. Nature apps as conservation tools: thoughts from an old millennial. *SUNY-ESF Senior Synthesis in Conservation Biology (EFB 414)*.
- March 2018 Weber, J. *Guest Lecture*. Nature apps as conservation tools. *SUNY-ESF Senior Synthesis in Conservation Biology (EFB 414)*.
- June 2017 Weber, J, DJ Leopold, and JJ Wiley Jr., *Poster*. Greenhouse germination trials with federally-protected Houghton's goldenrod: evaluating factors associated with population persistence. *BOTANY17, BSA Annual Meeting, Fort Worth, TX*.
- April 2017 Lee, L*, J Weber, and DJ Leopold. Preliminary analysis of germination rate in Houghton's goldenrod (*Oligoneuron houghtonii*) in various substrate types. *SUNY-ESF Student Spotlight on Research Symposium, Syracuse, NY*.
- April 2017 Weber, J, DJ Leopold, and JJ Wiley Jr., *Poster*. Greenhouse germination trials with federally-protected Houghton's goldenrod: evaluating factors associated with population persistence. *SUNY-ESF Student Spotlight on Research Symposium, Syracuse, NY*.
- Feb 2017 Weber, J, DJ Leopold, and JJ Wiley Jr., *Poster*. Greenhouse germination trials with federally-protected Houghton's goldenrod: evaluating factors associated with population persistence. *National Native Seed Conference, Washington, D.C.*
- Sept 2016 Weber, J. *Guest lab instructor*. Botanical lab exploration of Rand Tract, Syracuse, NY: identification of local angiosperms. *SUNY-ESF Flowering Plants: Diversity, Evolution, and Systematics (EFB 435/635)*.
- Sept 2016 Weber, J. *Invited talk*. Houghton's goldenrod range wide status update. *US Fish and Wildlife Service New York Field Office, Cortland, NY*.
- Oct 2013 Weber, J. *Keynote speaker*. Potential impacts of deer herbivory and non-native *Phragmites australis* on marl fen rarities. *Bergen Swamp Preservation Society Annual Meeting, Bergen, NY*.
- March 2013 Weber, J. *Guest lecture*. Moss life history strategies. *SUNY-ESF Ecology of Mosses (EFB 446/646)*.

PROFESSIONAL SOCIETIES – CURRENT MEMBERSHIPS

Ecological Research as Education Network (EREN)

Ecological Society of America (sections: Education, Natural History, Researchers at Undergraduate Institutions)

Botanical Society of America (sections: Ecological, Teaching, Northeastern, Primarily Undergraduate Institution)

New York Flora Association

ACADEMIC AWARDS and HONORS

ETS Recognition of Excellence for High Praxis Scores (Biology Content Knowledge)

Au Sable Institute of Environmental Studies Honors Scholarship and Fellowship

Messiah College Honors Program (Provost's and President's Scholarships)

Messiah College Dean's List, 8 semesters

National Merit Commended Scholar