

TRACY S. FELDMAN
CURRICULUM VITAE

Address: 1700 Dogwood Mile, St. Andrews University, Laurinburg, NC 28352

Cell phone: (561) 635-3173

E-mail: feldmants@sa.edu

POSITIONS HELD:

- **Assistant Professor of Biology** (Biologist), St. Andrews University, Laurinburg, NC (August 2014 – present)
- **Park Aide for Environmental Education**, Lake Crabtree County Park, (Summer 2018 and 2019)
- **Visiting Lecturer**, The University of North Carolina at Chapel Hill (January – March 2014), teaching Comparative Animal Physiology
- **Visiting Lecturer**, The University of North Carolina at Chapel Hill (October – December 2013)—teaching Ecology
- **Visiting Scholar**, The University of North Carolina at Chapel Hill, (March 2013 - present).
- **Contract Editor**, American Journal Experts, Durham, NC, February 2013 - present. edit manuscripts for grammatical correctness and style
- **Assistant Professor of Biology** (Plant Ecologist), The University of Wisconsin - Stevens Point, Stevens Point, WI, August 2008 - January 2013.
Projects: demography of Fassett's Locoweed, an endemic plant in WI; morphological evolution in swallowtail caterpillars; biology and diversity of endophytic fungi.
- **Postdoctoral Research Associate**, The Samuel Roberts Noble Foundation, Ardmore, OK, January 2006 - August 2008.
Project: Viruses of plant-associated fungi: their ecology, diversity, and effects on host fungi and plant parasitism (as part of a larger NSF-EPSCoR funded project on plant virus biodiversity).
Supervisor: Dr. Marilyn J. Roossinck

EDUCATION:

- **Ph.D. in Biology**, Duke University, Durham, NC (May 2005).
Dissertation: Can pollination facilitation mitigate the Allee effect?
Advisor: Dr. William F. Morris
- **M.S. in Zoology**, University of Florida, Gainesville, FL (May 1998).
Thesis: Effects of an introduced plant on oviposition choice and larval survival of native butterflies (*Anthanassa* spp.) in Monteverde, Costa Rica
Advisor: Dr. Thomas C. Emmel
- **B.A. in Biology**, Bard College, Annandale-on-Hudson, NY (May 1995).
Thesis: Island biogeography of goldenrod-associated insects
Advisor: Dr. William Maple

TEACHING EXPERIENCE

Course Instructor and Curriculum Development:

- Full-time faculty, St. Andrews Department of Natural Sciences and Mathematics (August 2014-present; responsible for all aspects of these courses):

TRACY S. FELDMAN
CURRICULUM VITAE

Address: 1700 Dogwood Mile, St. Andrews University, Laurinburg, NC 28352

Cell phone: (561) 635-3173

E-mail: feldmants@sa.edu

- **Introductory Topics in Biology** (for Non-Majors): a class and laboratory course for non-majors, covering basic principles and ideas in ecology and evolution, and using the scientific method and natural history
- **Ecology:** an introductory course to the field of ecology, with an emphasis on science as a practice.
- **Botany:** a course in plant evolution and ecology, diversity, form and function.
- **Plant Diversity:** a course covering plant evolution, mechanisms of evolution, and characteristics for identifying major plant groups and several flowering plant families.
- **Zoology:** a survey course covering animal biodiversity
- **Entomology:** a special topics course in the biology of insects
- **Field Botany:** a project-based field course to survey the plants of St. Andrews campus, covering relevant topics in ecology and evolution as needed.
- **Team-taught courses in general education:**
 - **Global issues (SAGE 450):** a course in ethical issues involving individuals, communities, and the world.
 - **Human Thought and Culture (SAGE 240):** a course covering influential writers and thinkers from the Renaissance to the Modern era.
- Visiting Lecturer at UNC, teaching the ecology portion of “Ecology and Evolution”, and part of “Comparative Anatomy and Physiology”.
- Full-time faculty, UWSP Department of Biology (August 2008-December 2012; responsible for all aspects of these courses):
 - **Ecology:** a course introducing major subfields of ecology, stressing the scientific method as a way to understand major concepts in ecology
 - **Ecological Methods:** a laboratory course with an emphasis on doing ecological research, in which students design their own experiments, collect and analyze data, write lab reports and present their results
 - **Plant Ecology:** an advanced class and laboratory course on ecological principles applicable to plants, emphasizing scientific writing and literacy
 - **General Biology:** a class and laboratory course for non-majors, covering basic principles and ideas in ecology and evolution, and using the scientific method
 - Seminars for advanced undergraduates in various topics, including “mutualisms”, “virus evolution and ecology”, and “deception in ecological systems”, that involve presentations and in-depth discussions of primary literature
- Part-time faculty, teaching **Introductory Botany** for the Continuing Education Program at Guilford College (fall 2003)
- Co-designed and co-taught an introductory course in insect biology for advanced undergraduates at Elon University (January term 2003, with Dr. Lisa Carloye)
- Teaching Assistant and Laboratory Instructor (**Ecology, Organismal Evolution, Animal Physiology, and Introductory Biology**) at Duke University (fall 2000- fall 2005)

TRACY S. FELDMAN
CURRICULUM VITAE

Address: 1700 Dogwood Mile, St. Andrews University, Laurinburg, NC 28352

Cell phone: (561) 635-3173

E-mail: feldmants@sa.edu

Student Mentoring (supervisory experience):

- Guided Independent Studies with St. Andrews Students:
 - Jared I. Key (fall 2016): effects of artificial light on spider aggregation and catch rate
 - Tarryn Holmes (fall 2017): patterns of ant use of extrafloral nectaries on two co-occurring *Chamaecrista* species.
 - Lilian Ignatius (spring 2018): effects of urbanization on herbivory patterns
 - Brett Shannon (fall 2017-spring 2019: algae of St. Andrews University)
- Masters committee member (2 students, UW-SP College of Natural Resources; 2010-11)
- Mentoring undergraduate research students
 - UW-SP (more than 10 students on 4 separate projects; 2009-12)
 - The Samuel Roberts Noble Foundation (2 students; summers 2007 and 2008).
 - Duke University (1 student; summer 2002); the University of Florida (fall 1997)
- Mentored lab members in statistical techniques for analyzing sequence data for studies on virus evolution in the Roossinck lab. (spring-fall 2007)

FACULTY SERVICE, SYNERGISTIC ACTIVITIES AND OUTREACH:

- Member of the St. Andrews University Martin Luther King Jr. Day Committee, fall 2014 – present, and participant in celebrations, playing music for at least 4 events.
- Member “at large” of the Curriculum Outcomes and Assessment Committee at St. Andrews University (fall 2018 – present)
- Member of the General Education NetVUE working group at St. Andrews University (fall 2018 – present)
- Volunteer at Science Olympiad gatherings at St. Andrews University (2015-present)
- Conducted environmental education workshops on herbivory, nature sounds, and plant identification to adults and families at Lake Crabtree County Park, summers 2018 – 2019
- Volunteer at the NC Museum of Life and Science, Insectarium (Feb 2013 – August 2014)
- Volunteer with the Ellerbe Creek Watershed Association, education committee and hike leader (June 2013 – present)
- 5-year review for Fassett’s Locoweed with Wisconsin DNR (summer-fall 2012)
- Panel member, for a panel on Karner Blue Butterfly recovery strategies (spring 2010)
- Reviewed articles for over 15 different scientific journals (2008-present)
- Curriculum committee (chair 2010-11), to review new courses and develop learning outcomes and assessment strategies for the biology department at University of Wisconsin Stevens Point (fall 2009-2012)
- Co-founded the Duke Natural History Society: organized field trips with community members to learn about local natural history. (2000-2005)

TRACY S. FELDMAN
CURRICULUM VITAE

Address: 1700 Dogwood Mile, St. Andrews University, Laurinburg, NC 28352

Cell phone: (561) 635-3173

E-mail: feldmants@sa.edu

FELLOWSHIPS, GRANTS AND AWARDS:

- Awarded funding from the American Society for Plant Taxonomy to purchase a plant drier for the herbarium in the aftermath of Hurricane Florence (fall 2018).
- Award from the Wisconsin Department of Natural Resources, to conduct field work to study demography of Fassett's Locoweed (*Oxytropis campestris* var. *chartacea*) (2009-12) \$4,700; \$3,400; \$3400; \$3400
- UWSP University Professional Development Committee Grant to study demography of Fassett's Locoweed (*Oxytropis campestris* var. *chartacea*) (2010) \$1,500
- Laboratory Modification Grant, UWSP, to renovate and purchase equipment for a laboratory space for use in classes and research (fall 2008; partially funded at \$20,000)
- Certificate in Teaching in Biology, Duke University Biology Department, (2003-2004)
- National Science Foundation Doctoral Dissertation Improvement Grant (May 2002)
- Duke University Graduate Student Teaching Mini-grant for Insect Biology (spring 2002)

PUBLICATIONS

Published in Refereed Journals:

- Eiseman C.S., Lonsdale O., and **Feldman T.S.** 2019. Nine new species of Agromyzidae from North Carolina, USA, with new host and distribution records for additional species, *Zootaxa* 4571: 301-333.
- Eiseman, C.S., Davis, D.R., Blyth, J.A., Wagner, D.L., Palmer, M.W., and **Feldman, T.S.** 2017. A new species of *Marmara* (Lepidoptera: Gracillariidae: Marmarinae), with an annotated list of known host plants for the genus. *Zootaxa* 4337 (2): 198-222.
- Eiseman, C.S., **Feldman, T.S.**, Lopresti, E.F., and Palmer, M.W. 2017. First North American Records of *Porphyrosela minuta* Clarke (Lepidoptera: Gracillariidae), with notes on its native congener, *P. desmodiella* (Clemens). *Entomological Society of Washington* 119 (1): 18-23.
- Feldman, T.S.**, Morsy, M., and Roossinck, M.J. 2012. Are communities of microbial symbionts more diverse than communities of macrobial hosts? *Fungal Biology* 116(4): 465-477.
- Min, B.E., **Feldman, T.**, Ali, A., Wiley, G., Muthukumar, V., Roe, B., Roossinck M., Melcher, U., Palmer, M.W., and Nelson, R.S. 2011. Molecular characterization, ecology and epidemiology of a novel tymovirus in *Asclepias viridis* from Oklahoma. *Phytopathology* 102(2): 166-176.
- Feldman, T.S.** and Morris, W.F. 2011. Higher survival at low density counteracts lower fecundity to obviate Allee effects in a perennial plant. *Journal of Ecology* 99:1162-1170 online doi: 10.1111/j.1365-2745.2011.01855.x.
- Xu P., Chen F., Mannas J. P., **Feldman T.**, Sumner. L.W., Roossinck M.J. 2008. Virus infection improves drought tolerance. *The New Phytologist* 180(4): 911-921.

TRACY S. FELDMAN
CURRICULUM VITAE

Address: 1700 Dogwood Mile, St. Andrews University, Laurinburg, NC 28352

Cell phone: (561) 635-3173

E-mail: feldmants@sa.edu

- Feldman T.S.** 2008. The plot thickens: Does low density affect visitation and reproductive success in a perennial herb, and are these effects altered in the presence of a co-flowering species? *Oecologia*. 156(4):807-817.
- Feldman T.S.**, O'Brien H.E. and Arnold A.E. 2008. Moths transport fungi associated with *Claviceps paspali* and the grass *Paspalum*. *Microbial Ecology* 56(4):742-750.
- Feldman, T.S.** 2006. Pollinator aggregative and functional responses to flower density: Does pollinator response to patches of plants accelerate at low-densities? *Oikos* 115: 128-140.
- Fleet, C.M., Rosser, M.F.N., Zufall, R.A., Pratt, M.C., **Feldman, T.S.**, and Lemons, P.P. 2006. Hiring Criteria in Biology Departments of Academic Institutions. *Bioscience* 56(5):430-436.
- Feldman, T.S.**, Morris, W.F., and Wilson, W.G. 2004. When can two plant species facilitate each other's pollination? *Oikos* 105:197-207.
- Feldman, T.S.** and Haber, W.A. 1998. Oviposition behavior, host plant use, and diet breadth of *Anthanassa* butterflies using plants in the Acanthaceae in a Costa Rican community. *The Florida Entomol.* 81(3):396-406.
- Feldman, T.S.** 1998. Fatal Interactions?: when exotic plants are lethal to native insects. *Wildland Weeds*.

ONGOING PROJECTS:

St. Andrews University Biodiversity Project:

http://tracysfeldman.com/StAndrews_research_projects.html)

Experience with GIS: (<http://tracysfeldman.com/GIS.html>)

PROFESSIONAL PRESENTATIONS (last 7 years):

- Ignatius L., Garner E., Henao E., Johnson C., Mobley J. Parini V. Scatton D., and Feldman T.S. 2019. Effects of urbanization on herbivory patterns. Ecological Society of America meetings.
- Key J.I., Jones A.D., and Feldman, T.S. 2016. Does artificial light influence aggregation and catch rate in two web-weaving spiders? Ecological Society of America meetings.
- Feldman, T.S. 2012. Teaching labs to engage students in the scientific method: a case study in an ecology lab class. University of Wisconsin System 6th Annual Best Practices in Science Conference.
- Feldman, T.S. 2012. Demography and population viability of Fassett's locoweed (*Oxytropis campestris* var. *chartacea*), an endemic plant in WI. Ecological Society of America meetings.
- Feldman, T.S. 2012. Science is a process: teaching ecology by engaging students in the scientific method. University of Wisconsin - Stevens Point 15th Annual Teaching Conference.

COLLABORATIONS:

- Charley Eiseman, freelance naturalist in Massachusetts

TRACY S. FELDMAN
CURRICULUM VITAE

Address: 1700 Dogwood Mile, St. Andrews University, Laurinburg, NC 28352

Cell phone: (561) 635-3173

E-mail: feldmants@sa.edu

- Owen Lonsdale, collections manager at the Canadian National Collection of Insects, Arachnids, and Nematodes.
- Michael Palmer, Professor of Biology, Oklahoma State University
- Craig Anderson, Ryan O'Connor, & Thomas Meyer, WI Dept. of Natural Resources
- Cathy Carnes, US Fish and Wildlife Service
- Dr. Marilyn J. Roossinck, Professor of Biology, Pennsylvania State University
- Dr. Richard S. Nelson, Professor of Plant Biology, The Samuel Roberts Noble Foundation
- Dr. Heath E. O'Brien, Department of Cell and Systems Biology, University of Toronto
- Dr. A. Elizabeth Arnold, Professor of Plant Pathology, University of Arizona
- Dr. William F. Morris, Professor of Biology, Duke University
- Dr. William G. Wilson, Professor of Biology, Duke University
- Dr. William A. Haber, Biology, Missouri Botanical Gardens

PROFESSIONAL MEMBERSHIPS:

- Ecological Society of America (1998 – present)
- Sigma Xi Scientific Research Society (2016 – present)