

## RHINE SINGLETON

College of Health and Natural Sciences  
Franklin Pierce University, Rindge, NH 03461  
603 899-4331; singler@franklinpierce.edu

### EDUCATION

- Ph.D.** Ecology and Evolutionary Biology, Cornell University 1998  
Dissertation: Recovery of the Forest Herb Community in Post-agricultural Forests in Central New York: Pattern and Process.
- M.S.** Biology, University of Oregon 1990  
Thesis: Components of Habitat Selection in Three Insects.
- B.A.** Biology, University of Virginia 1987  
Research: Tail Loss in the Dusky Salamander; Genetics of the Red Spotted Newt.

### TEACHING EXPERIENCE

**Professor of Biology and Environmental Science**, Franklin Pierce University, 1998 to Present  
Taught each of the following courses recently or for four or more semesters:  
BI430 Forest Ecology, BI250 Plant Biology, BI241 Evolutionary Biology, BI218 Ecology,  
BI211 Genetics, ES329 Special Topics–Climate Change, ES103 Intro to Ecosystem & Wildlife  
Conservation, ES104 Intro to Natural Resource Conservation, IC110 & 111 Integrated Science

**Graduate Teaching Assistant**, Cornell University & University of Oregon  
Involved in teaching each of the following courses:  
Intro Biology, Field Ecology, Ecological Genetics, Intro to Marine Biology

### OTHER AFFILIATIONS

**Visiting Professor**, Southern African Wildlife College, Hoedspruit, South Africa,  
September-October 2018. Developed interactive "navigable" tree guide for campus; analyzed  
data for Cape buffalo study; mentored students; gave presentations to graduate students and  
campus community.

**Visiting Scholar**, University of Venda, Thohoyandou, South Africa, October 2018.  
Presentations (through workshops & lectures) on sampling design, ecotourism in Costa Rica.

### DIRECTOR OF THE 2100 PROJECT

From January 2016 to September 2018 directed and edited [The 2100 Project](#), an  
interdisciplinary collaborative aimed at celebrating positive change and sharing diverse  
perspectives for a sustainable future.

### RESEARCH EXPERIENCE

**Ongoing Research Collaboration Dr. Catherine Koning** since 2000  
Monitoring ecological change in the Franklin Pierce University Natural Areas

## RESEARCH EXPERIENCE CONTINUED

- Research Collaboration with Debra Hamilton (The Monteverde Institute),** 2005-2018  
The Role of Fruiting Phenology of Lauraceae in Determining Suitable Habitat for the Three-wattled Bellbird in Monteverde, Costa Rica.
- Research Collaboration with Dr. Doug Blank (Comet.ML)** 2015-2018  
Using sonification as a means to communicate science.
- Research Collaboration with Dr. Catherine Koning (FPU),** 2000-2013  
The potential impact of Glossy Buckthorn on Native Plant Communities in southern New Hampshire.
- Graduate Research Assistant, Cornell University** 1994-1996  
Studied the effects of land-use history on native plant communities. Designed and conducted field studies to sample native plant diversity.
- Research Assistant, The Xerces Society, Portland, OR** winter 1990  
Studied butterfly communities in tropical rainforest in Madagascar to assess the long-term impact of land-use practices on butterfly diversity.

## SELECTED PUBLICATIONS AND PRESENTATIONS

- Singleton, R. 2026. [A Manual for Undergraduate Research in Field Biology, 2nd Edition](#). *In preparation* for submission to the OER site Merlot.
- Koning, C. and R. Singleton. 2025. Textbook: Saving Biodiversity as the Climate Changes. Available on [the OER site Merlot](#).
- Koning, C. and R. Singleton. 2024. Time to Change it Up: Increasing Undergraduate Accessibility and Engagement by Addressing the Species Extinction and Climate Crises through Ecosystem-focused OER Introductory Textbook. Poster presented at August 2024 Ecological Society of America Conference.
- Oppelt, N. and R. Singleton. 2022. The Ongoing Effects of Buckthorn on Understory Plant Communities in a Southwest New Hampshire Pine Forest. [Poster Presented at the Monadnock Region Natural History Conference](#), Keene, NH, November 12, 2022.
- Singleton, R. 2019. The Effect of Buckthorn on Forest Plant Communities in Southwest New Hampshire. [Poster Presented at the Monadnock Region Natural History Conference](#), Keene, NH, November 16, 2019.
- Jaskolski, K. and R. Singleton. 2019. The Effect of Buckthorn on Understory Plant Communities in a Southwest New Hampshire Pine Forest. [Poster Presented at the Monadnock Region Natural History Conference](#), Keene, NH, November 16, 2019.
- Hamilton, D., R. Singleton, and J. D. Joslin. 2018. Resource Tracking and its Conservation Implications for the Three-wattled Bellbird (*Procnias tricarunculatus*) in Costa Rica. [Biotropica 50\(1\): 146-156](#).

Petrycki, S., V. Williams, A. LaVoie, R. Singleton and C. Koning. 2017. The Effects of Land-Use History and Natural Disturbance on Changes in Tree Species Composition. [Poster Presented at the Northeast Natural History Conference](#), Cromwell, CT, April 23, 2017.

Singleton, R. and D. Blank. [Soundfield](#). Interactive sound and computer graphic experience based on historical and future projected global temperature. Installation at the Artists Respond to Global Challenges Show at the Crapo Gallery, UMass Dartmouth, Oct. 2016.

Singleton, R. 2016. Using smartphone apps to generate field guides for local regions. Poster Presented at the Northeast Natural History Conference, Springfield MA, April 23, 2016.

Koning, C. and R. Singleton. 2013. Effects of Moderate Densities of Glossy Buckthorn on Forested Plant Communities in Southwest NH, USA. [Natural Areas Journal, 33, 256-263](#).

Singleton, R and C. Koning. 2005. The potential effects of glossy buckthorn on native plants. Presentation at Invasive Plant Association of New England Conference.

Singleton, R., S. Gardescu, P.L. Marks, and M.A. Geber. 2001. Forest herb colonization of post-agricultural forests in central New York, USA. [Journal of Ecology, 89, 325-338](#).

#### SELECTED PUBLIC PRESENTATIONS

How to collect meaningful data for rural development studies. University of Venda, Thohoyandou, South Africa	October 2018
Biodiversity and Conservation in Costa Rica. South African Wildlife College, Hoedspruit, South Africa	September 2018
A Model of Ecotourism in Monteverde, Costa Rica. South African Wildlife College, Hoedspruit, South Africa	September 2018
Sonification – Turning data into sound. <a href="#">Public presentation and performance</a> by live musicians of <a href="#">The Sound of Global Warming</a> , FPU, Rindge, NH	May 2017
Soundfield. <a href="#">Sound Installation</a> . Academic Showcase, FPU, Rindge, NH	April 2017
Human Wildlife Conflict in India, Monteverde Institute, Costa Rica	June 2016
<a href="#">Appearance on Science Friday</a> to discuss Statistical Samples	May 2016
Conservation Biology of the Three-wattled Bellbird, Natural Sciences Research Roundtable, FPU, Rindge, NH	November 2015
When a Leopard Comes to Town, Public Presentation at the Mariposa Museum, Peterborough, NH	March 2015
Human Wildlife Conflict in India, Presentation at Antioch New England Graduate School, Keene, NH	February 2015
Guest Lecturer for High School Biology Class, Chaukori, India	September 2013

## SELECTED PUBLIC PUBLICATIONS

Singleton, R. 2019. Editorial in the Concord Monitor. *Nature in Decline*, May 9, 2019.

Singleton, R. 2017. Nudibranchs, Sinking Ships, and other Random Excerpts from an X-er. January, 2017 monthly feature at The 2100 Project Website. Available at: <http://www.ecologyandevolution.org/2100january2017.html>

Singleton, R. 2016. People in Soundfield – Video of Sound Installation. Available at: <https://www.youtube.com/watch?v=EP1J5rwNJ0g>

Singleton, R. 2016. The 2100 Project Website. Available at: <http://ecologyandevolution.org/2100home.html>

Singleton, R. 2015. The sound of global warming played fast. Available at: <https://www.youtube.com/watch?v=8P029W35E2Y>

Singleton, R. 2014. Fundamentals of Field Sampling: How to design a field study. Available at: <http://www.ecologyandevolution.org/PartIIITOC.php>

## RECENT GRANTS AWARDED

Principal Investigator for the Biology and Environmental Science Training (BEST) Program. 2018 – 2023. \$649,931. US National Science Foundation S-STEM Award.

**PROFESSIONAL MEMBERSHIPS:** Ecological Society of America, New England Wildflower Society

## SELECTED COMMITTEES AND OTHER UNIVERSITY COMMUNITY CONTRIBUTIONS

Co-coordinator of the FPU Institute for Climate Action	2021 to present
Member of the FPU Institute for Climate Action	2018 to present
Co-leader of Standard 6 Team to write NEASC self-study	Jan 2017 to Aug 2018
Executive Committee, Monadnock Institute	1998 to 2015
Sustainability Council Member	2015 to 2018
Coordinator of ES Department	2013 to 2020, 2023 to 2025
Advisory Committee, Pathway to Master's Program at AUNE	2012 to present
Advisor to Envi. Science, Biology, and Health Science Majors	1998 to present
Major Advisor for Environmental Science Thesis Projects	1998 to present
Member of ES Program Review Team	2012-2013
Chair of Environmental Studies Faculty Search Committee	2012-2013
Member of Academic Dean Search Committee	2011-2012
Curriculum Committee Member	2000-2004 & 2008-2012
Chair of ES/Integrated Science Faculty Search Committee	2010-2011