

## EVAN M. REHM, Ph.D.

Post-Doctoral Researcher  
Univ of California, Santa Barbara

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Institute for Pacific Island Forestry  
60 Nowelo St. Hilo, HI 96720

### CURRENT POSITION

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Post-doctoral Researcher, University of California – Santa Barbara 2017-present

### EDUCATION

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Ph.D. Biology (Tropical & community forest ecology) 2015  
Florida International University  
Dissertation: *Factors affecting current and future treeline locations and dynamics in the Peruvian Andes*

M.S. Wildlife Management (Wildlife conservation) 2006  
SUNY College of Environmental Science and Forestry  
Thesis: *Factors affecting marsh bird abundance and species richness of wetland birds in New York*

B.S. Wildlife and Fisheries Science (Wildlife & Fisheries Management) 2003  
Penn State University

### PROFESSIONAL APPOINTMENTS

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Post-Doctoral Research 2017-Current  
Project: Do ecological feedbacks across trophic levels affect alternate stable states and regeneration of tropical forests?  
*University of California, Santa Barbara, Santa Barbara CA; Work in Hawaii*

Post-Doctoral Researcher 2015-2017  
Project: Restoring ecological function to a novel ecosystem in the presence of one of the world's most destructive invasive species  
*Colorado State University, Ft Collins CO; Work in Saipan, Northern Mariana Islands*

Doctoral Candidate 2010-2015  
Project: Climate change effects on tropical treeline and cloudforest dynamics  
*Florida International University, Miami FL; Work in Manu National Park, Peru*

Visiting Researcher 2013  
Project: Spring patterns of freezing resistance and photosynthesis in *Hedera helix*  
*University of Basel, Switzerland; Work in Switzerland*

Avian ecology researcher 2007-2010  
Project(s): Conservation and ecology of threatened and endangered bird populations  
*Various locations including Australia, Northern Mariana Islands, Puerto Rico, and USA*

Wetland Program Coordinator 2006-2007  
Project: Development and application of Delaware's non-regulatory wetland strategy  
*Delaware Department of Natural Resources and Environmental Control, Dover DE*

Master's of Science 2004-2006  
Project: Secretive marsh bird habitat associations and detection protocol development  
*State University of New York, Syracuse, NY*

**PUBLICATIONS:** [19 total: 12 first author, 7 coauthor, +4 in review or prep]

**\* denotes Undergraduate or postgraduate co-author**

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- Rehm, E.M.**, Balsat M.\*, Lemoine, N. and Savidge, J. *In Press*. Spatial dynamics of habitat use informs reintroduction efforts in the presence of an invasive predator. *Journal of Applied Ecology*
- Rehm, E.M.**, Chojnaki, J.\*, Rogers, H. and Savidge, J. *In Press*. Differences in potential seed dispersal to degraded habitats by an avian frugivore community. *Restoration Ecology*
- Beer, K.\*, **Rehm, E.M.** and Savidge, J. 2016. First record of a passerine bird species, the Ashy Minivet (*Pericrocotus divaricatus*), for Saipan, Commonwealth of the Northern Mariana Islands. *Micronesica* 2016-2: 1-4
- Rehm, E.M.** and Feeley, K.J. 2016a. Seedling transplants reveal species-specific responses of high elevation tropical treeline trees to climate change. *Oecologia* 181:1233-1242
- Rehm, E.M.** and Feeley, K.J. 2016b. Many species risk mountain top extinction long before they reach the top? *Frontiers of Biogeography*. 8(1)
- Rehm, E.M.** and K.J. Feeley. 2015a. Freezing temperatures as a limit to forest recruitment above tropical Andean treelines. *Ecology* 96:1856-1865
- Rehm, E.M.** and K.J. Feeley. 2015b. The inability of tropical cloud forest species to invade grasslands above treeline during climate change: potential explanations and consequences. *Ecography* 38:1167-1175. Editor's Choice.
- Rehm, E.M.**, Olivas, P., Stroud, J., and K.J. Feeley. 2015. Losing your edge: climate change and the conservation value of range-edge populations. *Ecology & Evolution* 5: 4315-4326.
- Feeley, K.J. and **E.M. Rehm**. 2015. The downward shift of montane grasslands exemplifies the dual threat of human disturbances to cloud forest biodiversity (Letter). *Proceedings of the National Academy of Science*. 112:E6084.
- Rehm, E.M.**, Lenz, A., Hoch, G., and C. Körner. 2014. Spring patterns of freezing resistance and photosynthesis in *Hedera helix*. *Basic and Applied Ecology* 15: 543-550
- Rehm, E.M.** 2014. Rates of upslope shifts for tropical species depend on life history and dispersal mode (Letter). *Proceedings of the National Academy of Science*. 111:1676.
- Stroud, J.T., **Rehm, E.M.**, Ladd, M. Olivas, P., and K.J. Feeley. 2014. Are we spending our money wisely? Changing trends in conservation research priorities. *Journal for Nature Conservation* 22: 471-473.
- Feeley, K.J, **Rehm, E.M.**, and J. Stroud. 2014. There are many barriers to species' migrations. *Frontiers of Biogeography*. 6:63-66
- Feeley, K.J. and **E.M. Rehm**. 2014. Corridors are meant for connecting (Correspondence). *Nature Climate Change* 4: 405-406
- Rehm, E.M.** and K.J. Feeley. 2013. Forest patches and the upward migration of timberline

- in the tropical Andes. *Forest Ecology and Management* 305: 204-211.
- Feeley, K.J. and **E.M. Rehm**. 2012 Amazon's vulnerability to climate change heightened by deforestation and man-made dispersal barriers. *Global Change Biology* 18: 1335-1341. Recommended by the Faculty of 1000
- Feeley, K.J., **Rehm, E.M.**, and B. Machovina. 2012. The responses of tropical forest species to global climate change: acclimate, adapt, migrate, or go extinct? *Frontiers of Biogeography* 4(2): 69-84.
- Rehm, E.M.** and G. Bladassarre. 2007. Temporal variation in detection of marsh birds during broadcast of conspecific calls. *Journal of Field Ornithology* 78(1): 56-63.
- Rehm, E.M.** and G. Bladassarre. 2007. The influence of interspersions on marsh bird abundance in New York. *The Wilson Journal of Ornithology* 119(4): 648-654.

*In review or in preparation*

- Fricke, E., Bender, J., **Rehm, E.M.** and Rogers, H. Functional outcomes of mutualistic network interactions: a community-scale study of frugivore gut passage on germination. To be submitted December 2017 to Ecology Letters
- Rehm, E.M.**, Fricke, E., Ochocki, B. Bender, J., Rogers, H. and Savidge, J. *In Prep.* Seed dispersal distance reveals important differences in disperser effectiveness at the community scale. To be submitted January 2018 to Proceedings of the Royal Society Series B.
- Rehm, E.M.**, Fricke, E., Savidge, J., and Rogers, H. *In Prep.* Quantifying a complete disperser network – costs, benefits and caveats of two common methodologies. To be submitted Spring 2018.
- Rehm, E.M.**, Smith, M.\*, Yelenik, S. and D'Antonio, C. *In Prep.* Tree characteristics and local neighborhoods determine seedling recruitment in an abandoned mid-elevation pasture. To be submitted Spring 2018

**NON-REFEREED PUBLICATIONS**

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- Rehm, E.M.** and Feeley, K.J. 2012. Saving the forests in the clouds. *The Tropical Garden*. 72: 28-33
- Rehm, E.M.** and Rothweiler, R. 2008. Delaware Wetlands Conservation Strategy. Delaware Department of Natural Resources and Environmental Control. Dover, Delaware, USA

**TEACHING EXPERIENCE**

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|--|-----------|
| Instructor on Record, Ecology - LIFE 320<br><i>Colorado State University, Fort Collins CO</i>                          | 2017      |
| Instructor on Record, Discussions in Ecology – Group Study BZ 496<br><i>Colorado State University, Fort Collins CO</i> | 2017      |
| Teaching Assistant, Ecology Lab<br><i>Florida International University, Miami FL</i>                                   | 2010-2015 |

Volunteer Instructor, Fairchild K-12 Challenge <i>Fairchild Tropical Botanic Gardens, Miami FL</i>	2010-2015
Teaching Assistant, Deserts of Southern Africa <i>State University of New York, Syracuse, NY; course location Namibia and South Africa</i>	2004-2005
Teaching Assistant, Ornithology Lab <i>State University of New York, Syracuse, NY</i>	2004

### **UNDERGRADUATE AND POSTGRADUATE (< 1 YEAR POST GRADUATION) STUDENTS MENTORED**

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Marley Puanani Smith (Undergraduate) Tree architecture and seedling recruitment in abandoned pastures	Current
Cheryl Elgersma (Undergraduate) Soil nitrogen dynamics in abandoned pastures and restoration forests	Current
Janelle Chojnacki (Postgraduate) Movement of seed dispersers across ecotones	2016-2017
Mallory Balsat (Postgraduate) Night roosts and home range of native seed dispersers	2016-2017
Christine Pardo (Undergraduate) Soil seed bank of tropical cloud forests and treeline	2013-2015
Jonathan Valdivieso (Undergraduate) Seed predation at and above tropical treeline	2013
Nelson Cahuana (Masters, Peru) Grazing effects on grassland biomass in high elevation puna	2010-2015
Cintia Gutierrez (Masters, Peru) Grazing effects on grassland biomass in high elevation puna	2010-2015
Flor Zamora (Undergraduate, Peru) Grassland biodiversity and ecological dynamics	2010-2012
Adan Quispe (Postgraduate, Peru) Fire ecology and biodiversity in puna grasslands	2010-2015
Fernando Bravo (Undergraduate, Peru) Germination rates of high elevation tropical tree species	2010-2015

### **RESEARCH FUNDING AND AWARDS**

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2011 Tinker Field Grant – LACC FIU	\$1,160
2011 Kelly Tropical Botany Scholarship – Kelly Foundation	\$290
2011 Exploration Fund Grant – Explorer’s Club	\$1,000
2012 Doctoral Evidence Acquisition Fellowship – FIU	\$16,600
2012 Kelly Tropical Botany Scholarship – Kelly Foundation	\$290
2014 Tinker Field Grant – LACC FIU	\$1,800
2014 Dissertation Year Fellowship – FIU	\$16,600
2014 International Center for Tropical Botany – FIU	\$3,000

## SELECTED PRESENTATIONS AND POSTERS

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- Rehm, E.M.** et al. 2016. Determining seed dispersal services by avian frugivores to guide rewilding efforts. Ecological Society of America (Presentation).
- Rehm, E.M.** and Feeley, K.J. 2015. Factors affecting current and future treeline dynamics in the Peruvian Andes Association for Tropical Biology and Conservation. (Presentation)
- Rehm, E.M.** and Feeley, K.J. 2014. Hitting the Grass Ceiling: Recruitment limitation inhibits climate driven shifts of tropical treelines. Ecological Society of America (Presentation)
- Rehm, E.M.** and Feeley, K.J. 2014. The Grass Ceiling: Tropical treelines as a threat to biodiversity. 16<sup>th</sup> Annual Biology Research Symposium. Florida International University. Best presentation award. (Presentation)
- Rehm, E.M.** and Feeley, K.J. 2013. The Grass Ceiling: recruitment limitation above Andean timberlines. Association for Tropical Biology and Conservation (Presentation)
- Rehm, E.M.** and Feeley, K.J. 2013. The Grass Ceiling: recruitment limitation above timberline may limit tropical montane cloud forest's ability to adapt to global climate change. 6<sup>th</sup> International Biogeography Society Meeting. (Poster)
- Rehm, E.M.,** Bravo, C. and K.J. Feeley. 2012 (Invited). Ecología, conservación y efectos del cambio climático en el bosque de nubes del Parque Nacional Manu. Lima Natural History Museum. Lima, Peru. (Presentation)
- Rehm, E.M.** and Feeley, K.J.. 2012. Will above-timberline forest patches facilitate the upward migration of Andean montane cloud forests in response to climate change? Ecological Society of America. (Presentation)
- Rehm, E.M.** and G.A. Baldassarre. 2005. Temporal variation in marsh bird detection. The Wildlife Society's 12<sup>th</sup> Annual Conference. (Poster)
- Rehm, E.M.** and G.A. Baldassarre. 2005. Temporal variation in marsh bird detection. 58<sup>th</sup> New York State Ornithological Association. (Presentation)
- Feeley K.J. and **Rehm E.M.** 2013. Los efectos sinérgicos de los cambios climáticos y las perturbaciones antropogénicas en los bosques Andinos-Amazónicos. Annual Meeting of the Andes and Biodiversity Research Group. Pisac, Peru. (Presentation)
- Feeley K.J. and **Rehm E.M.** 2013. Amazon's vulnerability to climate change heightened by deforestation and man-made dispersal barriers. Annual Meeting of the Association for Tropical Biology and Conservation. San José, Costa Rica. (Presentation)
- Feeley K.J. and **Rehm E.M.** 2012. Amazon's vulnerability to climate change heightened by deforestation and man-made dispersal barriers. Annual meeting of the Ecological Society of America, Portland, Oregon. (Presentation)

## UNIVERSITY AND OUTREACH SEMINARS

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- 2014 Franklin and Marshall College, Biology Department Speaker Series
- 2014 Concord University, Guest Lecturer, Biogeography and Environmental Change
- 2015 Saipan Southern High School, Invited Speaker, Bird loss on Saipan and Guam
- 2016 Poudre High School, Invited speaker, Global change ecology
- 2017 Colorado State University, Department Seminar Series, Rewilding tropical islands
- 2017 Ignite Series, Colorado State University, Biodiversity loss on tropical islands
- 2017 USGS seminar series, Volcano National Park, Rewilding Guam
- 2017 University of Hawaii at Hilo, TCBES seminar, Conservation on islands

## **REVIEWER**

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Alpine Botany  
Arctic, Antarctic, and Alpine Research  
Forest Ecology and Management  
Global Change Biology  
Journal of Biogeography  
Journal of Ecology  
Mountain Research and Development  
Plant Ecology  
Plos One Biology  
Wetlands  
Wilson Journal of Ornithology

## **PROFESSIONAL SOCIETIES**

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Ecological Society of America  
International Biogeography Society  
Assoc. for Tropical Biology and Cons.

## **PROFESSIONAL DEVELOPMENT**

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Tropical Biology: An Ecological Approach - Organization for Tropical Studies

2012

## REFERENCES:

Dr. Stephanie Yelenik  
Research Scientist – Botanist  
U.S. Geological Survey  
Pacific Island Ecosystem Research Center  
Kilauea Field Station  
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