### Education

2015 **Ph.D.** Colorado State University, Fort Collins, CO

Graduate Degree Program in Ecology Graduate Teaching Certificate

2007 **B.A.** Colby College, Waterville, ME

Double Major: Environmental Studies and Classics

 $summa\ cum\ laude$ 

## **Professional Experience**

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2015-current	Montana State University, Bozeman, MT
	Postdoctoral Researcher, Dept. of Ecology
2015	Colorado State University, Fort Collins, CO
	Instructor, School of Global Environmental Sustainability
2010 - 2015	Colorado State University, Fort Collins, CO
	Research Assistant, Dept. of Ecosystem Science and Sustainability
2009-2010	Cornell University, Ithaca, NY
	Research Assistant, Boyce Thompson Institute for Plant Research
2009	Cary Institute of Ecosystem Studies, Millbrook, NY
	Project Assistant
2007 - 2008	Medomak Valley Land Trust, Waldoboro, ME
	Outreach and Stewardship Specialist
2007	Acadia National Park, Bar Harbor, ME
	Biological Science Technician
2006	Colby College, Waterville, ME
	Undergraduate Research Assistant, Dept. of Environmental Studies

# Fellowships and Awards

2014	NASA-MSU Professional Enhancement Award, Michigan State University
2013-2014	Sustainability Leadership Fellow, School of Global Environmental Sustainability, CSU
2013	Honorable Mention, Best Student Presentation, US-IALE
2012	Rocky Mountain Research Fellowship, Rocky Mountain Conservancy
2011	Research Ambassador Fellow, NSF and Evergreen State College
2011, 2012	Honorable Mention, NSF Graduate Research Fellowship Program
2010	Program of Research and Scholarly Excellence Fellowship, Colorado State University
2010	University Graduate Fellowship, Colorado State University

## Teaching and Mentoring Experience

2016	Co-Instructor, Advances in Ecological Modeling, Montana State University
2015	Instructor, Global Environmental Sustainability, Colorado State University
2014	Co-Instructor, Multivariate Statistics, Colorado State University
2014	Teaching Assistant, Ecosystem Ecology, Colorado State University
2013, 2014	Research Mentor, Undergraduate Research Program, Colorado State University
2012, 2013	Field Skills Instructor, Undergraduate Research Program, Colorado State University
2012	Teaching Assistant, Forest Ecology, Colorado State University
2004-2007	Writing Instructor and Tutor, Colby College

# **Publications and Reports**

2016 **Renwick, K.M.**, Rocca, M.E., and T.J. Stohlgren. Biotic disturbance facilitates range shift at the trailing but not the leading edge of lodgepole pine's altitudinal distribution. *Journal of Vegetation Science*, 27(4):780-788.

- 2015 **Renwick, K.M.** and M.E. Rocca. Temporal context affects the observed rate of climate-driven range shifts in tree species. *Global Ecology and Biogeography*, 24:44-51.
- 2012 **Renwick, K.M.**, and M.E. Rocca. Impacts of climate change and mountain pine beetle along forest ecotones. *Report to Rocky Mountain National Park*.
- 2011 **Renwick, K.M.**, and M.E. Rocca. Aspen recruitment in mixed aspen-lodgepole stands: will the mountain pine beetle outbreak benefit aspen? *Report to Rocky Mountain National Park*.
- In review **Renwick, K.M.**, and M.E. Rocca. The importance of non-climatic constraints on the distribution and migration potential of Rocky Mountain tree species. *Journal of Ecology*.
- In review Druckenbrod, D., Martin-Benito, D., Orwid, D., Pederson, N., Poulter, B., Renwick, K.M., and H. Shugart. Redefining temperate forest response to climate and disturbance in eastern North America: new insights at the mesoscale. *Ecography*.

### Selected Presentations

- 2016 Renwick, K.M., Kleinhesselink, A.K., Curtis, C., Schlaepfer, D., Bradley, B., Poulter, B., and P. Adler. "Forecasting changes in the distribution and abundance of sagebrush under climate change," Sagebrush Ecosystems Conservation Conference, Salt Lake City, UT
- 2015 **Renwick, K.M.** and M.E. Rocca. "Incorporating non-climatic variables into species distribution models to improve forecasts of landscape-scale range shifts," Open Science Conference, Fort Collins, CO
- Renwick, K.M., and M.E. Rocca. "Climate change impacts at the range margins of Rocky Mountain tree species: interactions with disturbance and implications for future forests," Mountain Climate Research Conference, Midway, UT
- 2014 **Renwick, K.M.**, and M.E. Rocca. "The relative importance of biotic variables in determining current and future tree species distributions," US-IALE Annual Symposium, Anchorage, AK
- 2013 **Renwick, K.M.**, and M.E. Rocca. "Interactive effects of climate and disturbance on landscape-scale range dynamics of Rocky Mountain tree species," US-IALE Annual Symposium, Austin, TX \*Awarded Honorable Mention in the graduate student presentation competition
- Renwick, K.M., and M.E. Rocca. "Are Rocky Mountain tree species responding to climate change?" Front Range Student Ecology Symposium, Fort Collins, CO \*Awarded 3rd place in the graduate student presentation competition
- 2012 **Renwick, K.M.**, Nelson, K. and M.E. Rocca. "Will the mountain pine beetle outbreak benefit aspen?" Rocky Mountain National Park Research Conference, Estes Park, CO
- Renwick, K.M. and M.E. Rocca. "Recruitment patterns in mixed aspen-lodgepole stands: will the mountain pine beetle outbreak benefit aspen?" Front Range Student Ecology Symposium, Fort Collins, CO
- 2007 **Renwick, K.M.**, Sadanowicz, A., Dubuque, G., Becker, R., Thompson, C. and D. Garneau. "Small mammal assemblages under urban influence in central Maine," Northeast Regional Sigma Xi Conference, Ithaca, NY
  - Renwick, K.M., Harrison, D., Adelphio, A., Firmage, D., Garneau, D. and K. Ness. "Analysis of land-use patterns in the Long Pond watershed and effects on water quality," Maine Water Conference, Augusta, ME \*Awarded 1st place in the undergraduate student presentation competition

#### Outreach and Service

Reviewer Global Ecology and Biogeography, Journal of Plant Ecology, Ecological Modeling

Professional Ecological Society of America, Early Career Ecologists Section

Society International Association for Landscape Ecologists

Membership Association for Women in Science

University Editorial Committee, Early Career Climate Forum

Service Newsletter Editor, Graduate Degree Program in Ecology (2013–2014)

Outreach Chair, Front Range Student Ecology Symposium (2013–2014)

Graduate Student Rep., Dept. of Ecosystem Science and Sustainability (2012–2013)

President, Front Range Student Ecology Symposium (2011–2012) Fundraising Chair, Front Range Student Ecology Symposium (2010–2011) Student Rep., Faculty Search Commitee, Colorado State University (2011) President, Colby College Environmental Coalition (2005-2007)

## Skills and Interests

 ${\it Research} \quad {\it Plant community dynamics, global change impacts, forest and rangeland management,}$ 

ecosystem modeling, applied statistics

Teaching general ecology, biology/biodiversity, forest ecology, botany, research methods, data

analysis/statistics, environmental sustainability, science for non-majors

 $\label{eq:cdot} Programming \quad R \cdot Markdown \cdot JAGS \cdot Shell \cdot CDO \cdot \LaTeX \cdot Git \cdot basic C++$ 

examples at https://github.com/krenwick