
PAIGE E. COPENHAVER-PARRY

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EDUCATION

- 2012-2016 Ph.D., Department of Botany and Program in Ecology, University of Wyoming
Advisor: Daniel Tinker
Scale-dependent contributions of abiotic and biotic factors to tree species composition patterns in the US Rocky Mountains
- 2009-2011 B.S., Department of Biology and Chemistry, George Fox University
Advisor: Donald Powers
Energetic cost of ejaculate production in red-sided garter snakes

PROFESSIONAL EXPERIENCE

- 2016-present **Assistant Professor of Biology**
Department of Biology and Chemistry, George Fox University
- 2015-2016 **Instructor**
University of Wyoming Life Sciences Program
- 2015 **Biology Instructor**
Upward Bound Math Science Program
- 2012 **Conservation Project Assistant**
Washington Department of Ecology, Conservation Corps
- 2010-2011 **Research Assistant**
Department of Biology and Chemistry, George Fox University

PUBLICATIONS

5. **Copenhaver-Parry, P.E.**, B.N. Shuman & D.B. Tinker. 2017. Towards an improved conceptual understanding of North American tree distributions. *Ecosphere* 8:e01853.
4. **Copenhaver-Parry, P.E.**, S.E. Albeke & D.B. Tinker. 2016. Do community-level models account for the effects of biotic interactions? A comparison of community-level and species distribution modeling of Rocky Mountain conifers. *Plant Ecology* 217:533-547
3. ***Copenhaver-Parry, P.E.** & E. Cannon. 2016. The relative influences of climate and competition on tree growth along montane ecotones in the Rocky Mountains. *Oecologia*. DOI: 10.1007/s00442-016-3565-x
2. Friesen, C.R., D.R. Powers, **P.E. Copenhaver** & R.T. Mason. 2015. Size-dependence in non-sperm ejaculate production is reflected in daily energy expenditure and resting metabolic rate. *Journal of Experimental Biology* 218: 1410-1418.
1. **Copenhaver, P.E.** & D.B. Tinker 2014. Stand density and age affect tree-level structural and functional characteristics of post-fire lodgepole pine in Yellowstone National Park. *Forest Ecology and Management* 320:138-148.

* co-authored by an undergraduate mentee of P. Copenhaver-Parry

MANUSCRIPTS IN PREPARATION

1. **Copenhaver-Parry, P.E.** & D.M. Bell. 2017. Co-occurrence patterns and the joint distribution of Rocky Mountain tree species. *Journal of Vegetation Science*. *In Review*.
2. **Copenhaver-Parry, P.E.**, Talluto, M.V., Carroll, C.J. & Martin, P.H. 2017. Cross-scale integration of population dynamics and range dynamics in a changing climate. *Global Ecology and Biogeography*.

PRESENTATIONS

11. **Copenhaver-Parry, P.E.**, M.V. Talluto, C.J.W. Carroll & P.H. Martin. Multi-scale inference of seedling range dynamics in Rocky Mountain Forests. Ecological Society of America Annual Meeting: August 2017.
10. **Parry, P.E.** & D.M. Bell. Disentangling local and regional influences on Rocky Mountain tree distributions with a Joint Species Distribution Model. Oregon Academy of Sciences: February 2017.
9. **Copenhaver, P.E.**, D.M. Bell & D.B. Tinker. Using co-occurrence patterns within a Bayesian Joint Species Distribution Model to disentangle the effects of climate and biotic interactions on the distributions of Rocky Mountain Trees. Ecological Society of America Annual Meeting: August 2015.
8. **Copenhaver, P.E.** Growth variation and diversity maintenance in a successional montane tree community. Front Range Student Ecology Symposium: February 25, 2015.
7. **Copenhaver, P.E.** Growth variation and diversity maintenance in a successional montane tree community. University of Wyoming Program in Ecology Student Research Symposium: February 20, 2015.
6. ***Copenhaver, P.E.**, D.M. Bell & S.E. Albeke. Evaluating Ecological Interactions across Spatial Scales. Wyoming Geographic Information Sciences Center Seminar Series: November 14, 2014.
5. ***Copenhaver, P.E.** Evaluating Interactions across Scales. Colorado State University Forest Ecology Seminar: November 5, 2014
4. **Copenhaver, P.E.**, D.B. Tinker, S.E. Albeke & D.M. Bell. Modelling the joint species distribution: simultaneous predictions of current distributions of three sympatric conifer species in the Central Rocky Mountains. Ecological Society of America Annual Meeting: August 2014.
3. **Copenhaver, P.E.** and Tinker, D.B. Structural and functional characteristics of young, post-fire lodgepole pine in Yellowstone National Park. University of Wyoming Botany Department Seminar Series; September 13, 2013.
2. **Copenhaver, P.E.** and Powers, D.R. Energy investment in copulatory plug production by large vs. small Red-Sided Garter Snakes (*Thamnophis sirtalis parietalis*). Society for Integrative and Comparative Biology Annual Meeting, Charleston, S.C.; January 3-7, 2012. *Poster presentation*.

**invited speaker*

1. **Copenhaver, P.E.** and Powers, D.R. Thermal preference and habitat choice in the Rough-Skinned Newt (*Taricha granulosa*). Society for Integrative and Comparative Biology Annual Meeting, Charleston, SC: January 3-7, 2012.

GRANTS AND FELLOWSHIPS

- 2016 **National Science Foundation Postdoctoral Research Fellowship in Biology**
Multi-scale inference in Rocky Mountain forests: linking recruitment and population dynamics to range dynamics in a changing climate
*declined in favor of faculty position
- 2015 **Wyoming NSF EPSCoR Wyoming Women in Science and Engineering Travel Grant**
Using co-occurrence patterns within a Bayesian Joint Species Distribution Model to disentangle the effects of climate and biotic interactions on the distributions of Rocky Mountain trees
- 2014 **Science Posse Graduate Fellowship**, National Science Foundation
Graduate K-12 teaching fellowship
- 2014 **Wyoming NSF EPSCoR Wyoming Women in Science and Engineering Travel Grant**
Considering Competition: Including interspecific competitive interactions in species
- 2013 **Wyoming NASA Space Grant Consortium Graduate Research Fellowship**
The influence of competitive interactions on future distribution of Rocky Mountain conifers under novel climate conditions
- 2013 **C.L. Porter Summer Fellowship**, University of Wyoming Botany Department
Quantifying competition among Rocky Mountain conifers
- 2011 **Richter Undergraduate Research Fellowship**, George Fox University

TEACHING AND MENTORSHIP

- 2017 Instructor, Ecology, Environmental Science, George Fox University
- 2016-17 Research Mentor, C. Murar & E. Stephens, George Fox University
- 2016 Instructor, Plant Biology, George Fox University
- 2015-16 Instructor, Life Science for Elementary Education majors, University of Wyoming
- 2015 Instructor, Biology, Upward Bound Math Science Program, University of Wyoming
- 2014 Research Mentor, E. Cannon, Kalamazoo College Biology undergraduate
- 2014 Guest Lecturer, Vegetation Ecology, *Plant Competition*, University of Wyoming
- 2014 Guest Lecturer, Forest Management, *Species Distribution Modelling*, University of Wyoming
- 2013 Guest Lecturer, Forest Ecology, *Plant Competition*, University of Wyoming
- 2013 Teaching Assistant, Genetics, University of Wyoming
- 2012 Teaching Assistant, General Biology, University of Wyoming

AWARDS AND HONORS

- 2017 **Outstanding Dissertation Award Honorable Mention**, University of Wyoming
- 2016 **Knight Fellowship**, Botany Department, University of Wyoming
- 2016 **Highlighted Student Paper**, *Oecologia*
- 2015 **Graduate Assistantship Award**, Program in Ecology, University of Wyoming
- 2014 **Graduate Assistantship Award**, Program in Ecology, University of Wyoming
Declined in favor of NSF fellowship
- 2014 **Outstanding Service Award**, Botany Department, University of Wyoming
- 2012 **Graduate Assistantship Award**, Botany Department, University of Wyoming
- 2009 **Presidential Scholarship**, George Fox University
- 2009 **Science Scholarship**, George Fox University

SYNERGISTIC ACTIVITIES

- 2017 Workshop, Maximum Likelihood Modeling, Colorado State University
2017 Working group, Species range shifts in a warming world, National Institute for
Mathematical and Biology Synthesis
2017 Faculty mentoring network, Quantitative Undergraduate Biology Education Synthesis
2016 Oral presentation judge, Murdock College Science Research Conference
2016 Ecology 101 Workshop, George Fox University Evangelical Seminary
2016 Invited speaker, Boy Scouts of America Troop 265
2015 Chair, Program in Ecology Outreach Committee, University of Wyoming
2015 Dendroecology workshop, Wyoming Women in Science Conference
2015 Dendroecology workshop, Wyoming State Science Fair
2014-2015 President, Program in Ecology Student Organization, University of Wyoming
2014-2015 Student Representative to the Faculty, Program in Ecology, University of Wyoming
2014-2016 Reviewer, *Forest Science*
2014 Volunteer, Wyoming Women in Science Conference
2014 Reviewer, *Journal of Forestry*
2014 NASA special awards judge, Wyoming State Science Fair
2013 Evolutionary Biologist Search Committee, Botany Department, University of Wyoming
2013 Dendrology workshop, Biodiversity Institute, University of Wyoming
2011 Science Fair judge, George Fox University
2009-2011 Greater Yamhill Watershed Council, Yamhill County, Oregon

PROFESSIONAL MEMBERSHIPS

Ecological Society of America
American Association for the Advancement of Science
American Association of University Women
Oregon Academy of Sciences
Sigma Delta Epsilon - Graduate Women in Science