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## PAIGE E. COPENHAVER-PARRY

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### EDUCATION

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- 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

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- 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

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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**

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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**

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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*.
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. *Poster presentation*.

*\*invited speaker*

## GRANTS AND FELLOWSHIPS

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- 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

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- 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

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- 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**, Program in Ecology, University of Wyoming
- 2014 **Graduate Assistantship**, Program in Ecology, University of Wyoming  
*Declined in favor of NSF fellowship*
- 2014 **Outstanding Service Award**, Botany Department, University of Wyoming
- 2012 **Graduate Assistantship**, Botany Department, University of Wyoming
- 2009 **Presidential Scholarship**, George Fox University
- 2009 **Science Scholarship**, George Fox University

### SYNERGISTIC ACTIVITIES

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- 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

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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