

## Jonathan D. Bakker

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### RESEARCH VISION

My research vision is to discover answers to questions of fundamental ecological interest and practical significance regarding the restoration and management of terrestrial ecosystems. My lab is active and vibrant, with a diverse group of undergraduate students, graduate students, and post-docs. We collaborate with other programs regionally, nationally, and internationally. Within five years, we will be part of an institute that provides visibility to UWBG's teaching, research, and extension.

### EDUCATION

- 2005      **Ph.D.**, with distinction, Ecosystem Science (Forestry), Northern Arizona University, Flagstaff, AZ
- 2003      **Graduate Certificate**, Applied Statistics, Northern Arizona University
- 1996      **M.Sc.**, Plant Ecology (Biology), University of Regina, Regina, SK
- 1994      **B.A.**, Biology and Environmental Studies, Dordt College, Sioux Center, IA

### EXPERIENCE

- 2006 – present      **Assistant Professor**, Restoration Ecology and Management, College of Forest Resources, University of Washington, Seattle, WA
- 1996 - present      **Plant Ecology Consultant**
- 2001 – 2006      **Senior Research Specialist** (2005-2006) and **Research Specialist** (2001-2005), Ecological Restoration Institute, Northern Arizona University, Flagstaff, AZ
- 2000 - 2002      **Assistant Professor**, Au Sable Institute of Environmental Studies, Coupeville, WA
- 1996 - 2001      **Forestry Technician**, TRP Forestry Consultants, Vernon, BC
- 1994 - 1996      **Research Assistant**, University of Regina, Regina, SK

### SELECT PEER-REVIEWED PUBLICATIONS

- Bakker, J.D. 2008. Increasing the utility of Indicator Species Analysis. *Journal of Applied Ecology* 45:1829-1835.
- MacDougall, A.S., S.D. Wilson, and J.D. Bakker. 2008. Climatic variability alters the outcome of long-term community assembly. *Journal of Ecology* 96:346-354.
- Bakker, J.D., and M.M. Moore. 2007. Controls on vegetation structure in southwestern ponderosa pine forests, 1941 and 2004. *Ecology* 88:2305-2319.
- Laughlin, D.C., M.M. Moore, J.D. Bakker, C.A. Casey, J.D. Springer, P.Z. Fulé, and W.W. Covington. 2006. Assessing targets for the restoration of herbaceous vegetation in ponderosa pine forests. *Restoration Ecology* 14:548-560.

- Bakker, J.D. 2005. A new, proportional method for reconstructing historical tree diameters. *Canadian Journal of Forest Research* 35:2515-2520.
- Kooistra, C.M., and J.D. Bakker. 2005. Frozen-stored conifer container stock can be outplanted without thawing. *Native Plants Journal* 6:267-278.
- Bakker, J.D., and S.D. Wilson. 2004. Using ecological restoration to constrain biological invasion. *Journal of Applied Ecology* 41:1058-1064.
- Wilson, S.D., J.D. Bakker, J.M. Christian, X. Li, L.G. Ambrose, and J. Waddington. 2004. Semiarid old-field restoration: is neighbor control needed? *Ecological Applications* 14:476-484.
- Bakker, J.D., S.D. Wilson, J. Christian, X. Li, L. Ambrose, and J. Waddington. 2003. Contingency of prairie restoration success on year, site and competition from introduced grasses. *Ecological Applications* 13:137-153.

### SELECT FUNDED RESEARCH GRANT PROPOSALS

- Moore, M.M., J.D. Bakker, and D.C. Laughlin. 2008-2011. Controls on conifer regeneration patterns (1909-2011) and implications for future stand development (2012-2062) in southwestern forests. USDA CSREES National Research Initiative Program. \$399,774. UW subcontract: \$134,546.
- Dunwiddie, P.W., J.D. Bakker, and S.A. Hall. 2008-2011. Vegetation impacts of recurring fires on sagebrush ecosystems in Washington: implications for conservation and rehabilitation. Joint Fire Science Program. \$399,888. UW subcontract: \$347,231.
- Bakker, J.D., and P.W. Dunwiddie. 2008-2009. Prairie habitat restoration for rare species. US Fish and Wildlife Service, Western Washington Fish and Wildlife Office. \$80,000.

### SELECT ACADEMIC AND PROFESSIONAL ACTIVITIES

- 2008 – present **Member**, College of Forest Resources Curriculum Committee, University of Washington, Seattle, WA
- 2008 – present **Faculty Advisor**, UW Student Guild, Society for Ecological Restoration International
- 2008 - present **Member**, Expert Panel Developing Patch Dynamics Models for the Taylor's Checkerspot, Mazama Pocket Gopher, and Streaked Horned Lark. US Fish & Wildlife Service, Lacey, WA
- 2007 - present **Member**, Fort Lewis Army Compatible Use Buffer Technical Review Panel, Fort Lewis, WA

**Peer Reviewer for scientific journals, including:** *Ecological Applications, Ecology, Ecology Letters, Forest Ecology and Management, Global Change Biology, Journal of Applied Ecology, Journal of Ecology, Restoration Ecology*

**External Peer Reviewer for scientific grant proposals from:** BC Forest Investment Account Forest Science Program, Vancouver, BC; Tahoe Science Consortium, Tahoe Center for Environmental Sciences, Incline Village, NV; California Bay-Delta Authority, Ecosystem Restoration Program, Sacramento, CA

CV current to: December 15/08