

**ERIK W. JANSEN**

33810 SE TERRA CIRCLE, CORVALLIS, OR 97333 • (806) 445-2863 • ERIKWJANSEN@GMAIL.COM

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**EDUCATION**

Texas Tech University, Lubbock, TX

M.Sc., Wildlife Science, summer 2013

Thesis: Grassland Bird Distribution and Raptor Flight Patterns in the Competitive Renewable Energy Zones of the Texas Panhandle.

Humboldt State University, Arcata, CA

B.Sc., Wildlife Management and Conservation, fall 2004

Thesis: Analysis of Walkingstick Herbivory Between Early and Late Successional Plant Species within a Subtropical Wet Forest, Puerto Rico.

**EXPERIENCE**

**Western EcoSystems Technology, Inc.**, Corvallis, OR

**May 2016 – current**

***Wildlife Biologist and Project Manager***

- Full-service wildlife biologist and project manager for all phases of renewable energy development and other resource development throughout the western U.S.
- Designs and implements studies from conception through mitigation and compliance monitoring with close attention to regulations, species biology, and habitat conservation.
- Specializes in large complex projects as well as small boutique projects that leverage subject matter expertise.
- Principal biologist and manager in pioneering and controversial projects including the first industrial wind energy facility west of the Cascade Mountains, largest solar energy facility in Washington, and largest renewable energy project in Washington.
- Managed budgets between \$250K–1M/year.

**Oregon Department of Forestry**, Forest Grove, OR

**May 2014 – May 2016**

***Northwest Oregon Area Wildlife Biologist, NRS 3***

- Responsible for wildlife management for timber sales and harvest-related activities on approximately 775,000 acres of state forest land.
- Developed harvest prescriptions, activity-specific restrictions that minimized potential impacts to threatened and endangered species.
- Conducted Biological Assessments for effects from timber sales and other activities to federally-listed species.
- Developed and implemented policy and guidance for marbled murrelet and northern spotted owl.

**Tetra Tech, Inc.**, Portland, OR

**September 2013 – May 2014**

***Wildlife Biologist***

- Wrote Biological Evaluations to support NEPA documentation for a proposed 221-mile natural gas pipeline.
- Conducted wildlife surveys and develop environmental resource reports for renewable energy projects throughout the U.S. Notable projects included an Avian and Bat Conservation Strategy for a solar energy facility in southern California and wind energy facility in eastern Oregon.
- Provided clients project-related strategies concerning federal on-shore wind energy guidelines and Eagle Conservation Plans. Compliance with Bald and Golden Eagle Protection and Migratory Bird Treaty Acts.
- Managed post-construction fatality, searcher efficiency and avian/bat carcass persistence data for wind energy facilities throughout the U.S.

**Texas Tech University**, Lubbock, TX

**August 2010 – August 2013**

***Graduate Research Assistant***

- Designed and implemented large-scale, long-term avian surveys on 180 mi<sup>2</sup> of privately-owned land in the northern Texas Panhandle.
- Modeled seasonal density and occupancy patterns of grassland birds over a gradient of existing landcover and disturbance types at a proposed wind facility and reference site.

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- Developed spatially-explicit models of bird distribution patterns to assist developers with designing projects that minimized potential impacts to grassland birds.
- Conducted raptor flight behavior surveys that investigated seasonal, species-specific, and topographic correlations with potential collision risk at proposed wind turbines.
- Trained and managed a team of 8 technicians who assisted with data collection. Conducted testing and quality control of technicians over the course of the survey period.

**Tetra Tech EC, Inc.,** Portland, OR

**September 2006 – August 2010**

***Wildlife Biologist and Project Manager***

- Evaluated impacts to sensitive wildlife species from the development of wind and solar energy facilities in the U.S. with an emphasis on Threatened and Endangered species. Focal species included bald eagle, desert tortoise, Indiana bat, northern spotted owl, prairie grouse, and whooping crane.
- Designed and conducted avian point count, nest and bat acoustic monitoring surveys at over 35 projects in 16 states that estimated the relative use and potential impacts to species from wind energy development. Work included writing proposals, designing project budgets and managing field crews (up to 12 people).
- Modeled bat and avian use with GIS to evaluate potential roosting and foraging areas. Results analyzed potential occurrence and use of the landscape and evaluated the potential impacts from wind energy development.
- Prepared environmental documents that supported regulatory and client planning processes that included Wildlife and Habitat Mitigation Plans, Environmental Impact Statements, Environmental Assessments, Environmental Risk Assessments and Critical Issues Analyses.

**ARCADIS G&M, Inc.,** Buffalo, WY

**March 2005 – August 2006**

***Wildlife Biologist***

- Conducted wildlife inventory and habitat surveys for federal mineral development of coal bed natural gas (CBNG) and conventional oil, proposed mine closures and public utility upgrades in the western U.S.
- Species surveyed included greater sage-grouse and sharp-tailed grouse, mountain plover, bald and golden eagles, numerous other raptor species, black-tailed prairie dog and Ute ladies'-tresse orchid using federal protocols.
- Prepared wildlife and habitat reports, presented results to federal agencies and contracting companies and coordinated efforts between private and public agencies to conserve wildlife resources and fulfill clients' scope.

**Institute for Tropical Ecosystem Studies,** El Yunque National Forest, PR

**June 2004 – August 2004**

***Research Assistant***

- Studied the feeding ecology of a neotropical walkingstick, *Lamponius portoricensis* to understand food preferences and associated herbivory levels in natural forested openings.
- Additional projects included long-term research that studied the levels of herbivory in gap and forested areas, several fisheries projects and taxonomically reorganized the insect collection at the field station in eastern Puerto Rico.

**Humboldt State University, Natural History Museum,** Arcata, CA

**February 2002 – January 2005**

***Insect Collections Manager***

- Spearheaded efforts to organize the museum's permanent insect collections consisting of over 20 orders and 3,000 species by taxonomic levels through individual review of each specimen.
- Performed collections of western U.S. insects and developed database for permanent museum records.

**United States Department of Agriculture,** Tonto National Forest, AZ

**May 2003 – August 2003**

***Biological Field Technician, GS-5***

- Surveyed and monitored Mexican spotted owl, northern goshawk, peregrine falcon and Chiricahua leopard frog habitats and populations. Owl surveys were conducted primarily at night, covering steep terrain and required effective use of ATVs, maps and GPS.

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- Other projects involved post-fire stream analysis, aquatic invertebrate and fish sampling, and habitat restoration in the area of the Rodeo Chediski burn of 2002.

### **United States Department of Interior, Sequoia/Kings Canyon National Park, CA      May 2002 – August 2002** ***Backcountry Biological Technician, GS-5***

- Restored breeding habitat for the endangered mountain yellow-legged frog in remote Kings Canyon National Park by removing non-native trout from various lakes with gill nets and backpack electrofishers.
- Conducted population surveys for mountain yellow-legged frogs, classing amphibians into species and life cycle stages, and presence/absence surveys for the nocturnal Mt. Lyell salamander.

### **SELECT PUBLICATIONS AND PRESENTATIONS**

- Jansen E. W.** 2023. Cumulative Effects to Birds, Bats, and Land Cover from Renewable Energy Development in the Columbia Plateau Ecoregion of Eastern Oregon and Washington. Prepared for Scout Clean Energy, Boulder, Colorado. Prepared by Western EcoSystems Technology, Inc. (WEST), Corvallis, Oregon. January 9, 2023. 106 pages + appendices. Submitted to the Washington Energy Facility Site Evaluation Council.
- Jansen, E. W.,** and J. K. Swenson. 2022. Population Viability Analysis of Ferruginous Hawk (*Buteo regalis*) in Eastern Washington. Prepared for Horse Heaven Wind Farm, LLC, Boulder Colorado. Prepared by Western EcoSystems Technology, Inc. (WEST), Corvallis, Oregon. November 14, 2022. 20 pages + appendix. Submitted to the Washington Energy Facility Site Evaluation Council.
- Jansen, E. W.,** K. T. Smith, and F. Kuzler. 2022. Multi-scale Resource Selection Nesting of Ferruginous Hawk (*Buteo regalis*) in Eastern Washington and at the Horse Heaven Clean Energy Center, Benton County, Washington. Prepared for Horse Heaven Wind Farm, LLC., Boulder, Colorado. Prepared by Western EcoSystems Technology, Inc. (WEST), Corvallis, Oregon. September 23, 2022. 29 pages + appendices. Submitted to the Washington Energy Facility Site Evaluation Council.
- Jansen, E. W.** 2022. Patterns of Ferruginous Hawk Nesting in the Horse Heaven Hills, Benton County, Washington 2017–2019, 2022. Prepared for Horse Heaven Wind Farm, LLC., Boulder Colorado. Prepared by Western EcoSystems Technology, Inc. (WEST), Corvallis, Oregon. June 5, 2022. 17 pages + appendices. Submitted to the Washington Energy Facility Site Evaluation Council.
- Jansen, E. W.** 2022. Utility-scale Photovoltaic Solar Energy Siting in Oregon. Presentation: Oregon Chapter of the Wildlife Society, Newport Beach, 24 February. Session Moderator.
- Jansen, E. W.** 2013. Grassland Bird Distribution and Raptor Flight Patterns in the Competitive Renewable Energy Zones of the Texas Panhandle. Thesis. Texas Tech University, Lubbock, 5 August.
- Jansen, E. W.** 2012. Method for Estimating Raptor Flight Height to Calculate Collision Risk Prior to the Development of a Wind Energy Facility. Poster Presentation: 130<sup>th</sup> American Ornithological Union Meeting, British Columbia, Canada, 15 August.
- Jansen, E. W.** 2012. Raptor Flight Behavior and Patterns at a Proposed Wind Energy Site in the Northern Texas Panhandle. Poster Presentation: 19<sup>th</sup> Wildlife Society Annual Meeting in Portland, OR, 13 October.
- Jansen, E. W.,** W. B. Ballard, and M. J. Butler. 2010. Density and Occupancy Patterns of Grassland Birds in the Competitive Renewable Energy Zones of the Texas Panhandle. Presentation: United States Department of Energy, Texas Tech University, Lubbock, 26 October.
- Friedel, R. G., **E. W. Jansen,** and J. Jones. 2010. A Spatially Explicit Method of Quantifying Potential Bat Habitat and Use. Presentation: 18<sup>th</sup> American Society of Photogrammetry and Remote Sensing Meeting, San Diego, CA, 28 April.
- Jansen, E. W.,** R. G. Friedel, and J. Jones. 2010. Modeling the Spatial Distribution of Bat Habitats Using GIS: An Application to Wind Energy Development and Indiana bats. White Paper. Tetra Tech EC, Inc. Portland, OR.
- Jansen E. W.,** J. Jones, and R. G. Friedel. 2008. Modeling Habitat Use and Spatial Distribution of Bats Using GIS. Presentation: Oregon Chapter of The Wildlife Society, Gleneden Beach, OR, 11 February.