



## Wildlife and Terrestrial Ecology Roster

A large and diverse team of wildlife and terrestrial ecologists is housed in the Research and Development mission area of the USDA Forest Service, where they provide knowledge and tools to sustain the health, diversity, and productivity of terrestrial species and their habitats on the nation's forests and grasslands.

Forest Service scientists conduct basic and applied research on terrestrial species and ecosystems to both inform land managers about biological trends, ecological relationships, landscape genomics, impacts from existing and emerging stressors, and effective responses to impacts from stressors, such as fire, invasive species, disease, climate change and habitat degradation. We provide management-driven, interdisciplinary science for all fish and wildlife managers, regardless of land ownership.

Our research supports a variety of goals, such as; (1) restoration and conservation of wildlife habitats and connectivity across large landscapes; (2) effective management of terrestrial wildlife and their habitats for adaptation to climate change; (3) development of innovative protocols for inventory and monitoring of wildlife populations, habitats, and forest foods; (4) integrative disease management, and (5) strategies to balance demands for water, energy, and other forest- and grassland-based commodities while ensuring the sustainability and diversity of terrestrial species and ecosystems. We not only produce answers, but we emphasize science delivery to a diverse group of partners, including Federal, State, and Tribal resource agencies, universities, nongovernmental organizations, and international cooperators, through both traditional and modern techniques.

The following is a list of the US Forest Service Research and Development scientists, managers, and staff, their professional interests, and their current research projects.

**For more information, please contact our scientists directly, or Monica Tomosy, Wildlife Research National Program Leader: [mstomosy@fs.fed.us](mailto:mstomosy@fs.fed.us).**



# USDA Forest Service Research and Development

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*(Names in green are Assistant Directors and Program Managers that can also be your points of contact.)*

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## Southern Research Station

### Cory Adams

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#### Interests:

- Anuran ecology and behavior
- Amphibian conservation
- Invasive species and their impacts
- Red-cockaded woodpecker ecology and management
- The role palatability plays in shaping larval anuran communities

#### Current Projects:

- The impacts of the invasive Chinese tallow tree on anuran egg hatching
- The impacts of Chinese tallow on larval anuran survival
- Calling phenology of the introduced Rio Grande Chirping Frog (*Eleutherodactylus cystignathoides*)
- Analyzing the relationship between herpetofauna and habitat features in northern Mississippi using GIS and remote sensing

### Cathryn (Katie) Greenberg

SRS (Asheville, NC)  
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#### Interests:

- Effects of forest management practices and natural disturbances on plant and animal communities
- Amphibian population dynamics and use of ephemeral ponds in relation to climate, hydrology, and condition of surrounding uplands
- Production of forest food resources, such as native fleshy fruit and hard mast, in relation to forest types and silvicultural disturbances

#### Current Projects:

- Acorn production patterns in the southern Appalachians
- Production of native fruit in mature and successional hardwood forest
- Effects of oak ecosystem restoration treatments on wildlife
- Long-term amphibian use of isolated ephemeral ponds

### Paul B. Hamel

Emeritus Scientist  
SRS (Oxford, MS)  
Center for Bottomlands Hardwoods Research  
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#### Interests:

- Habitat relationships of birds and other wildlife particularly in bottomland hardwood forests
- Effects of land management on selected species of wildlife and plants
- Wildlife habitat relationship and distribution models

#### Current Projects:

- Cerulean Warbler biology and conservation in breeding and nonbreeding range
- Extent of use of oak forests by migratory and non-migratory species of *Parulidae*
- Winter bird and resident small mammal response to afforestation of marginal
- Agricultural lands in the Lower Mississippi Alluvial Valley
- Long term vegetation change

### Phillip Jordan

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Southern Pine Ecology  
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#### Interests:

- Bat ecology and management
- Forest management prescriptions and effects on bats
- Amphibian conservation
- Aquatic insect ecology

#### Current Projects:

- Effects of woodland restoration and burn frequency on snag abundance
- Monitoring soft mast production on pine woodland restoration areas
- Winter survival of mine-hibernating bats
- White Nose Syndrome in hibernating bats



## Southern Research Station

### John C. Kilgo

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Center for Forest Watershed Research  
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#### Interests:

- Enhancing restoration and conservation of the wildlife species characteristic of pre-settlement Coastal Plain ecosystems within the context of modern multiple use landscapes
- Effects of forest management on wildlife, particularly nongame birds
- Influence of nonnative animals on wildlife in Southeastern ecosystems

#### Current Projects:

- Influence of coyote predation on fawn recruitment in the Southeast
- Effect of experimentally elevated snag densities on forest bird communities
- Population ecology and management of feral swine

### Susan Loeb

SRS (Clemson, SC)  
Clemson University  
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#### Interests:

- Bat ecology and conservation
- Effects of forest management on bats and other small mammals
- Inventory and monitoring methods

#### Current Projects:

- Effects of prescribed fire on roosting habitat of the endangered Indiana bat
- Roosting ecology of Rafinesque's bigeared bat, a rare and sensitive species, in the Coastal Plain of South Carolina
- Forecasting the effects of global climate change on the endangered Indiana bat
- Effects of oak regeneration techniques on bat activity and community composition in the Southern Appalachians
- Detection probabilities and sampling efforts needed to detect Indiana bats and other species in Kentucky
- The use of stable isotopes to understand migration of the endangered Indiana bat

### Roger Perry

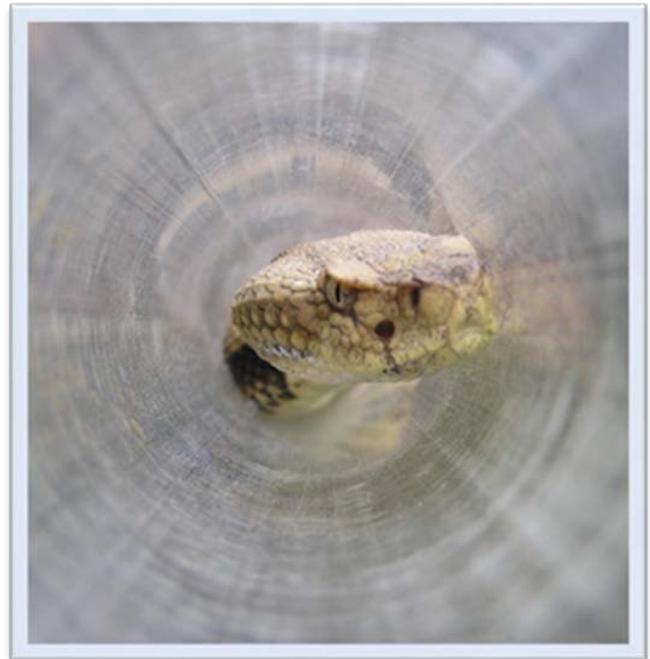
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#### Interests:

- Forest management effects on bats and bat hibernacula
- Effects of restoring fire-maintained ecosystems on wildlife
- Silviculture effects on nongame bird populations
- Climate change effects and emerging threats to mammals of the Southeast
- Early successional habitats

#### Current Projects:

- Effects of burn frequency on snag abundance
- Winter roost selection by forest bats
- Long term changes in bird communities under different silviculture systems



Timber Snake, P. Thurston, USFS

### Josh Pierce

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#### Interests:

- Snake ecology and behavior
- Effects of habitat fragmentation on reptiles
- Avian ecology



## Southern Research Station

### Josh Pierce (continued)

#### Current Projects:

- Reintroduction of the Louisiana Pine Snake
- Spatial ecology of the Louisiana Pine Snake
- Alligator Snapping Turtle habitat use
- Effects of burning on soft mast production

### D. Craig Rudolph

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#### Interests:

- Snake ecology and behavior
- Ecology of Lepidopterans
- Red-cockaded Woodpecker ecology
- Ecological impacts of fire
- Endangered species biology

#### Current Projects:

- Reintroduction of the Louisiana Pine Snake
- Ecology of the Louisiana Pine Snake
- Response of lepidopterans to fire
- Habitat use by Timber Rattlesnakes
- Avian use of restored prairies
- Ephemeral pond restoration

### Daniel Saenz

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#### Interests:

- Amphibian ecology and conservation
- Impacts of invasive species
- Red-cockaded woodpecker ecology

#### Current Projects:

- Impacts of invasive Chinese tallow tree on amphibian survival
- Effects of management and artificial ponds on amphibian communities
- Correlations between weather variables and amphibian breeding ecology
- Synergistic effects of invasive species and climate change on amphibian survival

### Richard Schaefer

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#### Interests:

- Red-cockaded Woodpecker ecology
- American Kestrel ecology
- General avian communities and ecology
- Louisiana Pine Snake and Timber
- Rattlesnake ecology
- Ecological impacts of fire

#### Current Projects:

- Provisioning and habitat use of nesting American Kestrels

### Monica Schwalbach

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### Michael Ulyshen

SRS (Athens, GA)

Insects, Diseases and Invasive Plants

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#### Interests:

- Species invasions, Novel ecosystems, Decomposition, Biodiversity, Pollination, Conservation

#### Current Projects:

- Role of insects in promoting wood decomposition and forest productivity
- Diversity and conservation of pollinators in forests
- Ecological impacts of invasive species.
- Biology and control of forest insect pests

### A. Dan Wilson

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#### Interests:

- Development of methods and procedures for the early detection and management of fungi and other microbes causing lumber defect.

#### Current Projects:

- Development of e-nose instruments for the detection and control of White Nose Syndrome



## Northern Research Station

### Sybill Amelon

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#### Interests:

- Ecology and conservation of bats (and other vertebrates)
- Effects of climate change on wildlife and landscape change
- Landscape analysis for large scale conservation planning
- Use of genetic tools for assessing population structure across landscapes

#### Current Projects:

- Modeling population viability of the endangered Indiana bat and estimating impacts from white nose syndrome (WNS); assessing genetic population structure dynamics for the endangered
- gray bat
- Effects of local and landscape factors on site occupancy of bats in the Eastern U.S. and survey effort needed to quantify population trends at multiple landscape scales
- Bat response to woodland and savannah restoration with fire
- Evaluation of small scale wind developments to evaluate impacts to bats and birds
- Bat ecology - evaluating influences of forest management practices on habitat utilization of several eastern bat species

### Christine Costello

NRS (Bartlett, NH)  
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#### Interests:

- Influences of silvicultural practices on species-habitat relationships
- Northern goshawk ecology and management
- Breeding ecology of early successional birds

#### Current Projects:

- Size of opening effects on breeding bird abundance and occurrence in northern hardwoods and associated conifers at the Bartlett and Massabesic EFs
- Northern goshawk landscape and stand level nesting patterns
- Massabesic EF prescribed fire effects on breeding birds

### Matthew Dickinson

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#### Interests:

- Effects of prescribed fires on wildlife behavior, injury, and mortality
- Habitat effects of wildland fires

#### Current Projects:

- Prescribed fire effects on bat foraging habitat during pre- and post-hibernation periods
- Response of reptile and amphibian communities to prescribed fire at Land Between the Lakes National Recreation Area
- Kingsnake bioenergetics in post-fire landscapes

### William Dijak

NRS (Columbia, MO)  
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#### Interests:

- Effects of climate change on forest development and wildlife communities
- Precipitation

#### Current Projects

- Using the non-spatial forest succession model linkages to parameterize the spatial forest succession model Landis Pro
- Development of software to populate forest landscapes from FIA data to be used as starting conditions for Landis Pro and Landis II models
- Effects of landscape and climate factors on abundance of birds in the Midwestern U.S.
- Using landscape habitat suitability index models to determine the effects of forest management on future wildlife habitat



Coyote, R.Vingovic, USFS



## Northern Research Station

### Deahn Donner

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#### Interests:

- Landscape ecology, especially related to wildlife populations
- Metapopulations and biogeography
- Bioenergy and wildlife issues
- Amphibian and reptiles

#### Current Projects:

- Impacts of harvesting woody biomass for bioenergy on community assemblages and nutrient cycling in northern hardwood forests
- Land-use changes with woody energy crop production in Wisconsin and Minnesota
- Long-term trends in survival and dispersal of Kirtland's warblers during periods of varying population size and habitat amount
- Relating goshawk nest occurrence to forest composition at several spatial scales

### Robert G. Haight

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#### Interests:

- Reserve design optimization
- Economics of wildlife protection and monitoring
- Economics of invasive species management

#### Current Projects:

- Prioritizing climate change adaptation strategies for biodiversity conservation
- Dynamic reserve selection: Optimal land retention with land price feedbacks
- Monitoring wildlife as a partially observable Markov decision problem
- Optimal surveillance and eradication of invasive species in heterogeneous landscapes
- Optimal control of emerald ash borer in an urban setting

### David I. King

NRS (Amherst, MA)

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#### Interests:

- Effects of forest management on birds and other wildlife
- Effects of climate change on montane birds and ecosystems
- Conservation of Neotropical migrants in urban landscapes
- Conserving tropical biodiversity with agroforestry

#### Current Projects:

- Effects of forest management on population viability of a forest interior bird, the wood thrush
- Developing early-successional habitat management plans for eastern National Forests
- Effects of habitat restoration and fuels control on birds, snakes and native pollinators
- Elevational shifts in abundance and demography of montane forest birds with climate change
- Influence of forest management and landscape structure on Neotropical migrants during the post-fledging stage
- Nest success and post-fledging survival of wood thrushes in urban fragments and extensive forest
- Habitat-specific abundance and survival of wintering Neotropical migrants in Costa Rica and Honduras
- Developing and evaluating agroforestry systems for biodiversity conservation in Latin America
- Carryover effects on natal dispersal and breeding success of Neotropical migrants

### Susannah Lerman

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#### Interests:

- Urban Ecology
- Social Dimensions of Biodiversity
- Avian Ecology
- Ecological Implications of Urban Development

#### Current Projects:

- Incorporating wildlife habitat information into tools for urban planning and management
- Avian habitat relationships in urbanizing environments



## Northern Research Station

### Stephen Matthews

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#### Interests:

- Understanding the responses of ecological systems to changing landscapes
- Climate change, specifically on modeling the habitat dynamics of tree and bird species across the Eastern United States
- Wildlife ecology, exploring influences of forest management practices and urbanization on the behavioral decisions and habitat utilization of vertebrates

#### Current Projects:

- Climate change research focusing on modeling the response of 147 bird species' habitats and 134 tree species' habitats to climate change across the Eastern United States
- Response of salamanders to forest management practices in Ohio's southeastern oak-hickory forests
- Forest focus area songbird monitoring program Vinton Furnace State Experimental Forest

### Miranda Mockrin

NRS (Baltimore Field Station)

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#### Interests:

- Human-wildlife interactions
- Effects of changing human demography and residential development on wildlife conservation

#### Current Projects:

- Summarizing recent and historical trends in hunting and wildlife watching participation, as part of Resources Planning Act (RPA) 2010 assessment
- Assessing changes in hunting and wildlife watching participation, in relation to socioeconomic, demographic, and ecological and environmental change

### Mark D. Nelson

NRS (St. Paul, MN)

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#### Interests:

- Wildlife habitat assessments for forest-associated vertebrates.

### Mark D. Nelson (continued)

- Satellite remote sensing of forest composition, structure, spatial pattern, and change.

#### Current Projects:

- Various analyses for Forest Inventory and Analysis (FIA).
- Modeling abundance of potential nesting cavities in snags and live trees.
- Integration of strategic inventory data with satellite remote sensing to assess breeding bird habitats.
- Modeling and mapping forest canopy disturbance and stand age using Landsat Time Series Stacks, and deriving habitat assessments for early successional habitats.
- Great Lakes Restoration Initiative (GLRI): Modeling effects of land change on coldwater fish.
- Upper Mississippi River / Great Lakes [bird] Joint Venture: Science and Technical Teams.
- National Report on Sustainable Forests: Coordinator, Criterion 1 – Conservation of Biological Diversity.

### Alex Royo

NRS (Irvine, PA)

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#### Interests:

- Mechanisms that alter understory diversity
- Role of interacting disturbances and herbivory in shaping understory diversity

#### Current Projects:

- Long-term study of fire, gap formation, and herbivory by white-tailed deer impacts on oak regeneration in West Virginia
- Long-term study of deer impacts on northern hardwood forests in Wisconsin
- Long-term study of landscape-scale manipulations of deer-density and vegetation heterogeneity on managed forest sustainability





## Northern Research Station

### Scott Stoleson

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#### Interests:

- Sustaining vertebrate populations in managed forests
- Understanding links between habitat structure and avian demography
- Impacts of energy development on forest wildlife

#### Current Projects:

- Post-fledging season habitat use by birds of high conservation value
- Effects of oil and gas development on forest songbird abundance and nest success
- Development of well site reclamation methods to produce early successional habitat
- Cerulean warbler abundance and demographics in managed forest habitats
- Developing a habitat assessment for Northern Goshawks at multiple spatial scales
- Understanding the trophic effects on the invasive Spotted-winged Drosophila in eastern forest ecosystems

### Susan Stout

NRS (Irvine, PA)

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#### Interests:

- Guidelines for sustainable management of deer and forests
- Measures of deer impact on forest vegetation
- Vegetation recovery from long-term overbrowsing.

#### Current Projects:

- Long-term study of landscape-scale manipulations of deer-density and vegetation heterogeneity on managed forest sustainability

### Frank R. Thompson, III

NRS (Columbia, MO)

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#### Interests:

- Ecology and conservation of land birds

### Frank R. Thompson, III (continued)

- Effects of climate change on wildlife and landscape change
- Models for large scale conservation planning

#### Current Projects:

- Predicting landscape change in response to climate change and land management in the Central Hardwood Region
- Effects of landscape and climate factors on abundance of birds in the Midwestern U.S.
- Bird response to woodland and savannah restoration
- Modeling population viability of the endangered Golden-cheeked Warbler
- Importance of nest predator species to population biology of shrubland and forest birds
- Ecology and management of early successional communities in the Central Hardwood Region



### Mariko Yamasaki

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#### Interests:

- Terrestrial species-habitat relationships in northeastern forested ecosystems
- Integration of quality wildlife habitat objectives and silvicultural practice in northern hardwoods and associated conifer types
- Northern goshawk nesting habitat patterns in NH and southern ME
- New England cottontail restoration efforts

#### Current Projects:

- Long-term patterns in small mammal populations at the Bartlett and Massabesic EFs
- Size of opening effects on breeding bird abundance and occurrence in northern hardwoods and associated conifers at the Bartlett and Massabesic EFs
- Breeding bird response to low-density white pine thinning at Massabesic EF
- Coarse woody material addition/removal effects on small mammals and herps at BEF
- Northern goshawk landscape- and stand-level nesting patterns
- Massabesic EF prescribed fire effects on small mammals, herps, and breeding birds



## Rocky Mountain Research Station

### Jack Butler

RMRS (Rapid City, SD)  
Forest and Grassland Research Laboratory  
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#### Interests:

- Wildlife-habitat relationships

#### Current Projects:

- Short- and long-term effects of multispecies grazing on vegetation associated with black-tailed prairie dogs in the Northern Great Plains.

### William Block

RMRS (Flagstaff, AZ)  
Emeritus Research Wildlife Biologist  
Wildlife and Terrestrial Ecosystems Program  
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#### Interests:

- Habitat and population ecology
- Conservation biology and planning
- Fire effects on birds and small mammals
- Effects of restoration on wildlife
- Effects of fuels reduction on wildlife

#### Current Projects:

- Habitat ecology of neotropical migratory birds (NTMBs) in the Madrean Archipelago
- Effects of prescribed fire on breeding and wintering birds in the American Southwest
- Wildfire effects on bird and small mammal communities
- Effects of fuel-reduction treatments in the urban-wildland interface on small mammal populations.

### Jeanne Chambers

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Forestry Sciences Laboratory  
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#### Interests

- Sagebrush restoration in relation to Greater and Gunnison's Sage-Grouse
- Sagebrush obligate species

### Jeanne Chambers (continued)

- Resilience and resistance concepts as they apply to wildlife habitat
- Riparian and wetland ecosystems

#### Current Projects:

- Resilience and resistance modelling of sagebrush and sage-grouse

### Samuel Cushman

RMRS (Flagstaff, AZ)  
Forestry Sciences Laboratory  
928-556-2177  
[scushman@fs.fed.us](mailto:scushman@fs.fed.us)

#### Interests:

- Wildlife habitat relationships
- Population connectivity and corridor delineation
- Landscape genetics
- Climate change and biological communities
- Landscape pattern analysis and simulation modeling

#### Current Projects:

- Effects of future climate change on population connectivity of wildlife populations.
- Effects of future climate changes on fire regimes, and vegetation community composition and structure
- Effects of future climate changes on distribution and adaptation of plant and animal species

### Brian Dickerson

RMRS (Rapid City, SD)  
Forest and Grassland Research Laboratory  
605-716-2197  
[bedickerson@fs.fed.us](mailto:bedickerson@fs.fed.us)

#### Interests:

- Habitat relationships of forest and grassland wildlife
- Effects of land management on selected species
- Wildlife habitat relationship models

#### Current Projects:

- Black-backed woodpecker resource selection in recently burned forest and mountain pine beetle infestations
- Resource selection of Black-backed woodpeckers in prescribed burn areas
- Effects of wind power development on Greater sage-grouse



## Rocky Mountain Research Station

### Jonathan Dudley

RMRS (Boise, ID)  
Aquatic Sciences Laboratory  
208-373-4378  
[jdudley@fs.fed.us](mailto:jdudley@fs.fed.us)

#### Interests:

- Fire and avian ecology
- Understanding long-term effects of management activities on populations and habitats of birds, with an emphasis on cavity-nesting species
- Songbirds and cavity nesters modeling breeding habitats and nest survival, implications for land management activities, and predictions of population responses under changing climate scenarios

#### Current Projects:

- Effects of wildfire and prescribed fire on populations and habitats of birds in ponderosa pine forests of the Interior West
- Foraging habitat ecology of blackbacked woodpeckers in burned forests of southwestern Idaho
- Effects of bark beetle colonization and management treatments on populations and habitats of birds in ponderosa pine forests of central Montana
- Development of monitoring protocols for management indicator and sensitive species of woodpeckers
- Validation of models used to predict cavity nest occurrence of white-headed and black-backed woodpeckers
- Influence of post-fire salvage logging on nest survival of black-backed woodpeckers in south-central Oregon

### Martha Ellis

RMRS (Bozeman, MT)  
Forest Sciences Laboratory  
406-994-4853  
[marthamellis@fs.fed.us](mailto:marthamellis@fs.fed.us)

#### Interests:

- Improving mathematical and statistical tools to provide guidance for conservation and management activities affecting wildlife populations.

#### Current Projects:

- Using large-scale, landscape simulation to understand interacting disturbances among Mountain Pine Beetle, fire, and climate
- Validation and refinement of habitat suitability models for woodpeckers in beetle affected forests
- Understanding current uses, assumptions, and limitation of habitat suitability and species distribution modeling in ecology decision making

### Martha Ellis (continued)

- Developing and maintaining accessible software (rSPACE) for implementing power analyses for occupancy-based monitoring of wildlife populations
- Role of closure assumption in occupancy based models and options to improve the efficiency of large-term monitoring

### R. Kasten Dumroese

RMRS (Moscow, ID)  
Forestry Sciences Laboratory  
208-883-2324  
[kdumroese@fs.fed.us](mailto:kdumroese@fs.fed.us)  
<http://www.fs.fed.us/rmrs/people/kdumroese>

#### Interests:

- Native plant propagation and deployment for habitat restoration
- Monarchs and milkweeds

#### Current Projects:

- Directing the Western Center for Native Plant Conservation and Restoration Science (WCNP)
- Enhancing plant diversity within new and existing restoration efforts

### Deborah M. Finch

RMRS (Albuquerque, NM)  
Program Manager  
Grassland, Shrubland, and Desert Ecosystems 505-724-3671  
[dfinch@fs.fed.us](mailto:dfinch@fs.fed.us)  
<http://www.fs.fed.us/rm/albuq/dfinch.php>

#### Interests:

- Effects of climate change, invasive species, fire and other disturbances on wildlife
- Demographics of threatened and endangered bird species
- Vulnerability assessments of plant and wildlife species

#### Current Projects:

- Effects of wild fire on birds and native and invasive plants in riparian woodlands
- Relationships between fire, fuel reduction, and invasive species in riparian woodlands
- Development and application of climate change vulnerability assessments



## Rocky Mountain Research Station

### Curtis H. Flather

RMRS (Fort Collins, CO)  
Headquarters Building  
970-498-2569

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<http://www.fs.fed.us/rmrs/people/flather-curtis-h>  
[https://www.researchgate.net/profile/Curtis\\_Flat\\_her](https://www.researchgate.net/profile/Curtis_Flat_her)

#### Interests:

- Improve the analysis of wildlife population and community response to changes in climate, land use, and land cover within multiple-use landscapes
- Extend conservation science's capability to design landscapes in a spatially explicit and perhaps optimal way
- Document trends in wildlife resources for land use policy

#### Current Projects:

- Testing for broad-scale thresholds in bird-landscape relations
- Predicting concentrations of at-risk species nationally
- Climate change effects on wildlife habitat across the coterminous U.S

### Paulette L. Ford

RMRS (Albuquerque, NM)  
Forestry Sciences Laboratory  
(505-724-3660)

[plford@fs.fed.us](mailto:plford@fs.fed.us)

#### Interests:

- Disturbance

#### Current Projects:

- Long-term experimental fire research on wildlife response to season and frequency of fire
- TWS Technical Review: Effects of Prescribed Fire on Wildlife
- Long-term interacting effects of livestock grazing practices, invasive weeds and climate variability on temperate-grassland/desert ecosystems

### Megan M. Friggens

RMRS (Albuquerque, NM)  
Forestry Sciences Laboratory  
505-724-3679

[meganfriggens@fs.fed.us](mailto:meganfriggens@fs.fed.us)

#### Interests:

- Climate Change
- Disturbance
- Emerging and re-emerging infectious disease of wildlife

### Megan M. Friggens (continued)

#### Current Projects:

- Vulnerability of terrestrial vertebrates to climate change
- Small mammal zoonotic disease
- (Plague and Bartonella) & fire risk in riparian zones

### Joseph L. Ganey

RMRS (Flagstaff, AZ)  
Southwest Forest Science Complex  
928-556-2156

[jganey@fs.fed.us](mailto:jganey@fs.fed.us)

#### Interests:

- Ecology and demography of the Mexican spotted owl
- Dynamics of snag populations in southwestern mixed-conifer and ponderosa pine forests
- Integrating wildlife habitat requirements with forest restoration efforts

#### Current Projects:

- Developing multi-scale habitat models for Mexican spotted owls in different landscapes
- Occupancy and reproduction of Mexican (*Ganey Continued*) spotted owls 15 years after a large wildfire
- Abundance and community composition of small mammals 18 years post wildfire
- Dynamics of snag and log populations in southwestern mixed-conifer and ponderosa pine forests

### Teryl Grubb

Emeritus Scientist  
RMRS (Flagstaff, AZ)  
Southwest Forest Science Complex  
928-556-2155

[tgrubb@fs.fed.us](mailto:tgrubb@fs.fed.us)

#### Interests:

- Understanding the inevitable effects of human activities and global climate change on wildlife for management and protection of our national and global resources
- TES (raptor) research and management

#### Current Projects:

- Anthropogenic effects on raptors and other wildlife, especially noise
- Contributing to bald eagle projects in MI, MN, VA, and OK addressing environmental contamination, wind energy, and bird aircraft strike issues.
- Applying 50 years of bald eagle research experience to the growing national concern for golden eagles



## Rocky Mountain Research Station

### Serra Jeanette Hoagland

RMRS  
Fire Science Laboratory  
406-829-6972  
[sjhoagland@fs.fed.us](mailto:sjhoagland@fs.fed.us)

#### Interests:

- Wildlife corridors, habitat connectivity and landscape ecology
- Indigenous knowledge and federal-tribal partnerships
- Oak woodland ecology and management;
- Noninvasive methods for wildlife tracking/monitoring
- Mexican spotted owl conservation efforts

#### Current projects:

- Landscape-scale assessment of Mexican spotted owl habitat on tribal and Federal lands
- Wildfire risk within treated and untreated Mexican spotted owl nesting sites
- Ecology and management of Tejon oak woodlands in California

### Stanley G Kitchen

RMRS (Provo, UT)  
801-356-5108  
[skitchen@fs.fed.us](mailto:skitchen@fs.fed.us)

#### Interests:

- Historic and modern fire regimes and their impacts on vegetation structure
- Sagebrush ecosystem succession and resilience
- North American cold desert stability
- Western aspen ecology

#### Current Projects:

- Post-fire succession in mountain sagebrush communities
- Great Basin bristlecone pine climate and wildfire vulnerability assessment
- Historic fire regime and vegetation structure variability in Utah and Nevada mountains
- Sagebrush and sage-grouse vulnerability assessment

### Peter Landres

RMRS (Missoula, MT)  
Aldo Leopold Wilderness Research Institute  
406-542-4189  
[plandres@fs.fed.us](mailto:plandres@fs.fed.us)

#### Interests:

- Developing the knowledge needed to protect and sustain ecological conditions in wilderness

### Peter Landres (continued)

- Developing the strategies and tools for improving the ecological-based management of wilderness nationwide

#### Current Projects:

- Leading efforts to integrate the concept of wilderness character into wilderness stewardship nationwide
- Leading the effort to develop methods to spatially model wilderness character
- Developing decision-making frameworks, including one for evaluating proposals for scientific activities inside wilderness, and another for whether restoration actions should be taken in wilderness to mitigate, for example, the effects of climate change

### Quresh Latif

RMRS (Bozeman, MT)  
406-994-3002  
[gslatif@fs.fed.us](mailto:gslatif@fs.fed.us)  
<http://www.fs.fed.us/rmrs/people/qlatif>

#### Interests:

- Application of ecological models to inform wildlife conservation and management
- Interrelationships between avian nest site selection, nest predation risk, and brood parasitism
- Causes and consequences of habitat selection in animals

#### Current Projects:

- Applying species distribution models and occupancy models to describe and understand forest woodpecker distributions
- Modeling snag persistence in relation to bark beetle outbreaks
- Combining species distribution models with occupancy models to maximize inference from available presence-only and presence-absence data

### Roy Lopez

RMRS (Flagstaff, AZ)  
Southwest Forest Science Complex  
928-556-2162  
[rglopez@fs.fed.us](mailto:rglopez@fs.fed.us)

#### Interests:

- Wildlife ecology
- Human – wildlife interactions

#### Current Projects:

- Food habits of wintering bald eagles in northern Arizona
- Consumption rates of vehicle-killed ungulates along northern Arizona interstate highways
- Genetic variation of Coues white-tailed deer in two landscapes of the southwestern United States



## Rocky Mountain Research Station

### Roy Lopez (continued)

- Hybridization between mule deer and Coues white-tailed deer in the southwestern United States
- The use of weathered antlers as a source of DNA for molecular genetic studies
- Multiple peer reviewed publications based on thesis
- Facilitate the use of microsatellite allele frequencies by wildlife managers to determine differences among Coues white-tailed, Eastern white-tailed, mule deer, and hybrid Coues white-tailed/mule deer
- Provide insight into landscape determinants of molecular genetic variability of Coues white-tailed deer in the southwestern United States
- Peer reviewed publications on wintering bald eagle utilization of local food sources

### Kevin S. McKelvey

RMRS (Missoula, MT)  
Forestry Sciences Laboratory  
406-542-4163  
[kmckelvey@fs.fed.us](mailto:kmckelvey@fs.fed.us)

#### Interests:

- Providing better methods to assess resources across large spatial and temporal domains
- Developing methods for projecting habitat change and connectivity and testing these projections

#### Current Projects:

- Developing methods to evaluate status and trends of organisms across broad spatial and temporal domains
- Prototyping broad-scale genetic monitoring using native fish samples from across Montana and Idaho
- Using occupancy and genetic patterns to evaluate status of rare plants and animals in the Spring Mountains, Nevada
- Combining different data streams to evaluate status and trend, with an emphasis on grizzly bears in the northern Rocky Mountains
- Evaluating the effects of climate change on aquatic and terrestrial organisms with an emphasis on changes in connectivity and corridor location
- Developing robust detection protocols using environmental DNA with an emphasis on bull and brook trout
- Developing methods to evaluate corridors using joint optimization for multiple species and socio-economic values

### Lucretia Olson

RMRS (Missoula, MT)  
Forestry Sciences Laboratory  
406-542-4151  
[lucretiaolson@fs.fed.us](mailto:lucretiaolson@fs.fed.us)

#### Interests:

- Using spatial and population ecology to better understand the distribution, stability, and habitat use of wildlife species

#### Current Projects:

- Determining resource selection of small mammals in Wyoming in relation to habitat characteristics and oil and gas development
- Modeling distribution and movement of forest carnivores (lynx, wolverine, and fisher) in Idaho and western Montana using GPS and genetic data
- Using simulations to relate sample size to precision of population viability analyses for long-term species monitoring
- Developing novel methods to sample and monitor winter recreation in relation to lynx and wolverine habitat use

### Yvette Ortega

RMRS (Missoula, MT)  
Forestry Sciences Laboratory  
406-542-3246  
[yortega@fs.fed.us](mailto:yortega@fs.fed.us)

#### Interests:

- Building understandings of ecological patterns and processes in order to improve the management of natural systems

#### Current Projects:

- Measure interactive effects of climate change and invasive plants on native plants and animals
- Evaluate efficacy of invasive plant management for restoration of native habitat
- Assess a new technique for assessing songbird habitat quality based on local song structure

### Dean Pearson

RMRS (Missoula, MT)  
Forestry Sciences Laboratory  
406-542-4159  
[dpearson@fs.fed.us](mailto:dpearson@fs.fed.us)

#### Interests:

- To advance community ecology through studies of biological invasions and to use this information to improve invasive species management



## Rocky Mountain Research Station

### Dean Pearson (continued)

#### Current Projects:

- Basic research in community ecology to understand how communities are structured
- Research on biological invasions to try to understand the causes and consequences of invasions in order to better manage this problem

### Richard Reynolds

RMRS (Fort Collins, CO)  
Natural Resources Research Center  
970-498-2575  
[rreynolds@fs.fed.us](mailto:rreynolds@fs.fed.us)

#### Interests:

- The relationship between species' demographics -- their reproduction, survival, mate, and territory fidelity -and their habitat in order to identify habitat elements that distinguish among high quality and low quality habitats

#### Current Projects:

- Determine the distribution and density of breeding territories, reproduction, survival, mate and territory fidelity, recruitment, and emigration/immigration of northern goshawks on the Kaibab Plateau, Arizona.
- Assess the relationship between goshawk demographic performance and habitat conditions on territories
- Identify the compositional and structural habitat elements that confer "quality" to goshawk breeding habitats
- Identify factors affecting goshawk prey populations and the extent to which prey affects goshawk demographics
- Investigate the utility for identifying individual goshawks of genetic fingerprinting in capture- recapture studies and color, pattern, and shape of molted feathers in mark-recapture studies
- Determine the effects of high vs low intensity fire on the habitat of goshawk prey populations and on goshawk habitat use

### Kristine L. Pilgrim

RMRS (Missoula, MT)  
Forestry Sciences Laboratory  
406-329-2134  
[kpilgrim@fs.fed.us](mailto:kpilgrim@fs.fed.us)

#### Interests:

- The use of genetics for wildlife monitoring and conservation
- Developing new genetic methods to identify rare species

### Kristine L. Pilgrim (continued)

- Wildlife forensics

#### Current Projects:

- Using DNA based methods to determine fisher distribution in Region 1
- Using our cougar DNA database to help wildlife managers in the Midwest and East identify individuals and monitor dispersing cougars
- Landscape genetic projects on lynx, wolverine, fisher, cougar and marten

### Justin B. Runyon

RMRS (Bozeman, MT)  
Forestry Sciences Laboratory  
406-994-4872  
[jrunyon@fs.fed.us](mailto:jrunyon@fs.fed.us)  
<http://www.fs.fed.us/rmrs/people/jrunyon>

#### Interests:

- Plant-pollinator interactions
- Biodiversity and taxonomy of flies
- (Diptera)

#### Current Projects:

- Effects of climate change on pollinator attraction to plants
- Effects of bark beetle management semiochemicals on pollinators
- Conducting taxonomic revisions and inventories on several groups of longlegged flies (Dolichopodidae)

### Vicki Saab

RMRS, (Bozeman, MT) Forestry Sciences Laboratory  
406-994-5032  
[vsaab@fs.fed.us](mailto:vsaab@fs.fed.us)

#### Interests:

- Understanding wildlife habitat relationships to provide guidance on management activities that promote wildlife population and habitat persistence

#### Current Projects:

- Evaluating the effects of forest restoration activities on habitat and populations of woodpeckers in the Interior Pacific Northwest
- Experimental Design of Post-fire Salvage Logging: optimization for multiple wildlife species and socioeconomic values
- Snag persistence in relation to bark beetle outbreaks
- Validation and refinement of habitat suitability models for woodpeckers
- Developing training workshops to instruct managers and biologists on creating habitat suitability maps used to guide forest restoration activities



## Rocky Mountain Research Station

### Vicki Saab (continued)

- Relationships among bark beetles, climate, fire, and bird populations

### Susan Salafsky

RMRS (Corvallis, OR)  
Forestry Sciences Laboratory  
541-750-7286  
[ssalafsky@fs.fed.us](mailto:ssalafsky@fs.fed.us)  
<http://www.rmrs.nau.edu/people/ssalafsky/>

#### Interests:

- Wildlife ecology
- Biodiversity conservation
- Habitat management

#### Current Projects:

- Effects of prey, habitat, and climate on goshawk reproduction (PhD dissertation)
- The northern goshawk in California: a technical assessment of its ecology and status

### Jamie Sanderlin

RMRS (Flagstaff, AZ)  
928-556-2182  
[jsanderlin@fs.fed.us](mailto:jsanderlin@fs.fed.us)  
<http://www.fs.fed.us/rmrs/people/jsanderlin>

#### Interests:

- Population and community dynamics
- Bayesian statistics and hierarchical models
- Mark-recapture models with ecological applications
- Sampling design with respect to optimizing resources
- Modeling genotyping error with genetic mark-recapture studies
- Wildlife genomics and bioinformatics

#### Current Projects:

- Fire effects on bird and small mammal communities
- Wildlife genomics of greater sage grouse
- Assessing large-scale effects of wildfire and climate change on avian communities and habitats in the Sky Islands, Arizona
- Optimal study design of multi-species avian monitoring programs
- Lifetime reproductive success of northern goshawks
- Developing Bayesian statistical models for demographic parameter estimation with genetic studies
- Using citizen science within the Chiricahua Mountains to evaluate disturbance effects on the avian community

### Michael Schwartz

RMRS (Missoula, MT)  
Program Manager for Wildlife  
Director, National Genomics Center for Wildlife and Fish Conservation  
406-542-4161  
[mkschwartz@fs.fed.us](mailto:mkschwartz@fs.fed.us)  
<http://www.fs.fed.us/research/genomicscenter/about/>  
<http://www.fs.fed.us/research/people/profile.php?alias=mkschwartz>

#### Interests:

- Exploring ecological and genetic factors influencing species distributions
- Population, conservation, and landscape genetics and genomics
- Combining molecular ecology and field ecology

#### Current Projects:

- Adapting population genetics theory and human medicine-based DNA technology
- into tools readily available for conservation
- Development of DNA-based tools for genetic monitoring, testing their efficacy, applying them in collaboration with management
- Developing multi-species connectivity tools that consider social and economic factors to help prioritize land management decisions.
- Ecology of threatened and endangered species exploring population demography, behavioral ecology, and habitat use
- Using genetic and genomic tools to understand gene flow, population substructure, and evaluating species (and subspecies). Currently using this approach on sage-grouse, fisher, lynx, wolverine, multiple salmonids, moose and a suite of other species

### John Squires

RMRS (Missoula, MT)  
Forestry Sciences Laboratory  
406-542-4164  
[jsquires@fs.fed.us](mailto:jsquires@fs.fed.us)

#### Interests:

- The management and conservation of Canada lynx, wolverines, and other sensitive species. Raptors and their management

#### Current Projects:

- Discovering and synthesizing information that is needed to conserve threatened, endangered, and sensitive forest carnivores throughout the Rocky Mountains



## Rocky Mountain Research Station



Goshawk, D. Brinker, USFS

### Chris Witt

RMRS (Boise, ID)  
Aquatic Sciences Laboratory  
208-373-4370  
[chriswitt@fs.fed.us](mailto:chriswitt@fs.fed.us)

Interests:

- Creating economically friendly modeling tools that resource managers can access at any time to assess the state of a species' habitat at large scales (landscape, state, ecoregions)
- Tracking changes in forest structure over time as it relates to vertebrate species habitat

Current Projects:

- Developing tools that quantify habitat for forest vertebrates listed as threatened, endangered or of special concern by state and /or federal management agencies
- Trend models that can show resource managers which structural characteristics of a species' habitat are limiting or are changing in abundance over time

### John Squires (continued)

- Seasonal changes in resource use of Canada lynx and wolverines
- Canada lynx movements and connectivity in the north-central Rockies
- Canada lynx population viability in the northern Rockies
- Determining the response of lynx and wolverines to winter recreation
- Determining how oil and gas development affects ferruginous hawks in Wyoming
- based on GPS telemetry and conservation genetics

### Brenda E. Strohmeier

RMRS (Flagstaff, AZ)  
928-556-2185  
[bstrohmeier@fs.fed.us](mailto:bstrohmeier@fs.fed.us)

Interests:

- Wildlife biology
- Education
- Outdoor activities
- Wildlife conservation

Current Projects:

- Public outreach and education
- Tech transfer activities
- Wildlife and habitat conservation studies





## Pacific Northwest Research Station

### Keith Aubry

PNW (Olympia, WA)  
Emeritus Research Wildlife Biologist  
Ecological Process and Function Program  
Wildlife Ecology Team  
360-753-7685  
[kaubry@fs.fed.us](mailto:kaubry@fs.fed.us)  
<http://www.fs.fed.us/research/people/profile.php?alias=kaubry>

#### Interests:

- Distribution, ecological relations, evolutionary history, and conservation genetics of rare and elusive forest carnivores in the western mountains of the contiguous United States

#### Current Projects:

- Ecology and conservation of rare and elusive forest carnivores in the Pacific Northwest
- Long-term monitoring strategy for wolverines in the North Cascades
- Potential effects of continued global warming on the distribution and connectivity of wolverine habitat in the western contiguous United States

### Eric Forsman

PNW (Corvallis, OR)  
Emeritus Research Wildlife Biologist  
Ecological Process and Function Program  
Wildlife Ecology Team  
541-750-7266  
[eforsman@fs.fed.us](mailto:eforsman@fs.fed.us)  
<http://www.fs.fed.us/research/people/profile.php?alias=eforsman>

#### Interests:

- Ecology and demography of the northern spotted owl and barred owl
- Ecology of tree voles and their predators

#### Current Projects:

- Demography of northern spotted owls in Oregon and Washington
- Dispersal and pedigree analysis of northern spotted owls
- Distribution and abundance of tree voles in Oregon
- Population age structure, vocal communication, and regional and local variation in pelage color in tree voles

### Julianna Jenkins

PNW (Corvallis, WA)  
Postdoctoral Research Wildlife Biologist  
Ecological Process and Function Program  
Wildlife Ecology Team  
541-750-7498  
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<https://www.fs.fed.us/research/people/profile.php?alias=juliannajenkins>

#### Interests:

- Quantitative ecology; conservation biology, population ecology, and community ecology
- Ecology of post-fledging Neotropical migrant songbirds
- Northern spotted owl ecology and resource partitioning with barred owls
- Species interactions

#### Current Projects:

- Incorporating remotely sensed forest structure metrics into models of nest site selection by northern spotted owls
- Quantifying fine-scale resource partitioning by northern spotted owls and barred owls
- Dispersal of adult northern spotted owls

### Damon Lesmeister

PNW (Corvallis, OR)  
Research Wildlife Biologist and Team Leader;  
Ecological Process and Function Program  
Wildlife Ecology Team  
541-750-7342  
[dlesmeister@fs.fed.us](mailto:dlesmeister@fs.fed.us)  
<http://www.fs.fed.us/research/people/profile.php?alias=Damon>

#### Interests:

- Processes that structure wildlife communities in forested ecosystems
- Wildlife resource selection, distribution, space use, and population dynamics
- Developing and conducting multi-species monitoring
- Predator-prey dynamics, with focus on the ecology of small mammals and forest predators, including small mammalian carnivores and northern spotted owls

#### Current Projects:

- Demography of northern spotted owls in Oregon and Washington
- Wildfire effects on northern spotted owl habitat relationships and nest site fidelity
- Fine-scale partitioning of space by forest raptors
- Dispersal of adult northern spotted owls



## Pacific Northwest Research Station

### Damon Lesmeister (continued)

- Limiting factors for red tree voles in young forest
- Annual variation in abundance of small mammals on the HJ Andrews Experimental Forest
- Carnivore community structure in central and eastern hardwood forests
- African elephant carrying capacity and multi-species monitoring in Malawi, Africa

### Teresa Lorenz

PNW (Olympia, WA)  
 Postdoctoral Research Wildlife Biologist  
 Ecological Process and Function Program  
 Wildlife Ecology Team  
 360-753-7696

[tlorenz@fs.fed.us](mailto:tlorenz@fs.fed.us)  
<http://www.fs.fed.us/research/people/profile.php?alias=tlorenz>

#### Interests:

- Animal behavior and the evolution of behavior
- Community ecology and species interactions
- Applying behavioral and evolutionary ecology to conservation and management

#### Current Projects:

- Marbled murrelet habitat selection, space use, and productivity
- Behavioral ecology of rodent nest predators and implications for nest survival in small land birds
- Survival and dispersal of juvenile white-headed woodpeckers
- Interannual variation in space use and productivity in white-headed woodpeckers – a longitudinal study

### Bruce Marcot

PNW (Portland, OR)  
 Research Wildlife Biologist  
 Ecological Process and Function Program  
 Wildlife Ecology Team  
 503-808-2010

[bmarcot@fs.fed.us](mailto:bmarcot@fs.fed.us)  
<http://www.fs.fed.us/research/people/profile.php?alias=bmarcot>

#### Interests:

- Applied science research and technology development and application projects dealing with old-forest ecology
- Modeling of rare and little-known species
- Biodiversity assessment

### Bruce Marcot (continued)

- Ecologically sustainable forest management
- Development of a research framework on key ecological functions of plants and animals

#### Current Projects:

- Modeling potential effects of climate change on wildlife habitats in the Western Arctic of Alaska (with USGS)
- Modeling potential effects of sea level rise on coastal wetlands (with USGS)
- Modeling potential effects of vegetation, fire, and fuels management on the future viability of Northern Spotted Owls in the eastern Cascade Mountains
- Developing & refining methods of expert paneling, and analysis and use of uncertainty in structured decision-making methods



### Katie Moriarty

PNW (Olympia, WA)  
 Postdoctoral Research Wildlife Biologist  
 Ecological Process and Function Program  
 Wildlife Ecology Team  
 360-753-7716

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<http://www.fs.fed.us/research/people/profile.php?alias=kmoriarty02>

#### Interests:

- Applied research, technology development, and creating tools for wildlife practitioners
- Ecologically sustainable forest management
- Ecology and management of threatened, endangered, or sensitive wildlife

#### Current Projects:

- Marten rest and den use, energetics, and fine-scale space use
- Carnivore distributions in Oregon, focusing on fisher
- Humboldt marten detectability and distribution
- Marten space use before wildlife crossing structure implementation (I-90)
- Coastal marten distributions in Washington
- Porcupine distributions in coastal Oregon and the southern Cascades



## Pacific Northwest Research Station

### Cathy Raley

PNW (Olympia, WA)  
Wildlife Biologist  
Ecological Process and Function Program  
Wildlife Ecology Team  
360-753-7686  
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<http://www.fs.fed.us/research/people/profile.php?alias=craley>

#### Interests:

- Ecology of woodpeckers and wood-inhabiting arthropods
- Role of decay processes in creating wildlife habitat
- Ecology of forest carnivores in the Pacific Northwest

#### Current Projects:

- Wolverine distribution and ecology in the North Cascades Ecosystem
- Modeling fisher distribution in the Pacific states
- Habitat relations of fishers in the Oregon Cascade Range
- Foraging habitat of pileated woodpeckers on the east slope of the Cascade Range in Oregon

### Martin Raphael

PNW (Olympia, WA)  
Emeritus Research Wildlife Biologist; Ecological Process and Function Program, Wildlife Ecology Team  
360-753-7662  
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<http://www.fs.fed.us/research/people/profile.php?alias=mraphael>

#### Interests:

- Wildlife ecology and habitat relationships
- Population dynamics
- Ecology and management of threatened, endangered, or sensitive wildlife

#### Current Projects:

- Population ecology of the marbled murrelet
- Habitat relationships of the northern spotted owl and American marten

### Janice Reid

PNW (Roseburg, OR)  
Wildlife Biologist  
Ecological Process and Function Program  
Wildlife Ecology Team  
541-464-3229  
[Janice\\_Reid@blm.gov](mailto:Janice_Reid@blm.gov)

### Janice Reid (continued)

<http://www.fs.fed.us/research/people/profile.php?alias=jareid>

#### Interests:

- Biology, history, and management of spotted owls
- Demography of the northern spotted owl
- Barred owl effects on spotted owl demographics
- Land form effects on spotted owl nest site selection
- Genealogy of spotted owls
- The effects of thinning on spotted owl site fidelity

#### Current Projects:

- Spotted owl demographic study
- Barred owl influence on extinction and colonization rates of spotted owls
- Database management and coordination

### Mary Rowland

PNW (La Grande, OR)  
Research Wildlife Biologist  
Ecological Process and Function Program  
Starkey Ungulate Ecology Team  
541-962-6582  
[mrowland@fs.fed.us](mailto:mrowland@fs.fed.us)  
<http://www.fs.fed.us/research/people/profile.php?alias=mrowland>

#### Interests:

- Regional habitat and threats assessments
- Wildlife habitat monitoring
- Biodiversity conservation
- Effects of climate change on animal performance

#### Current Projects:

- Development and validation of elk habitat models for Oregon and Washington
- Effects of hunter space use on hunter success and ungulate distributions
- How riparian restoration impacts stream temperature, native bees, and small mammals
- Effects of ungulate herbivory on riparian restoration

### Peter Singleton

PNW (Wenatchee, WA)  
Research Wildlife Biologist  
Threat Characterization and Management Program  
Disturbance and Restoration Ecology Team  
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<http://www.fs.fed.us/research/people/profile.php?alias=psingleton>



## Pacific Northwest Research Station

### Peter Singleton (continued)

#### Interests:

- Raptor and carnivore ecology
- Wildlife - habitat relationships
- Climate change impacts on animal populations and distribution
- Using individual-based modeling to link landscape dynamics to animal population function
- Assessing landscape permeability, habitat connectivity, and identifying corridors for animal movement

#### Current Projects:

- Interactions between barred owls and northern spotted owls in fire-prone forests
- Using individual-based modeling to evaluate effects of barred owl encroachment on northern spotted owl population function in a dynamic landscape
- Assessing regional-scale patterns of landscape permeability and habitat connectivity in the Pacific Northwest
- Identifying climate-gradient connectivity patterns for climate change adaptation

### James Swingle

PNW (Corvallis, OR)

Wildlife Biologist

Ecological Process and Function Program

Wildlife Ecology Team

541-750-7286

[jswingle@fs.fed.us](mailto:jswingle@fs.fed.us)

<http://www.fs.fed.us/research/people/>

#### Interests:

- Demography and ecology of northern spotted owls and barred owls
- Ecology of red tree voles

#### Current Projects:

- Demography of northern spotted owls on the Olympic Peninsula, WA
- Artificial platform use by red tree voles in young forest
- Distribution and habitat modeling of red tree voles

### Randall Wilk

PNW (Olympia, WA)

Wildlife Biologist

Ecological Process and Function Program

Wildlife Ecology Team

360-753-7710

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[http://www.fs.fed.us/research/people/profile.php?](http://www.fs.fed.us/research/people/profile.php?alias=rwilk)

[alias=rwilk](http://www.fs.fed.us/research/people/profile.php?alias=rwilk)

### Todd Wilson

PNW (Corvallis, OR)

Wildlife Biologist

Ecological Process and Function Program

Wildlife Ecology Team

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[alias=twilson](http://www.fs.fed.us/research/people/profile.php?alias=twilson)

#### Interests:

- Ecology of arboreal rodents
- Evaluating the usefulness of wildlife as indicators of the health and functioning of managed forests
- Understanding the effects of forest management practices on terrestrial vertebrates
- Strengthening the network of Research Natural Areas for research

#### Current Projects:

- Evaluation of the long-term effects of variable-density thinning on squirrels, forest-floor small mammals, and terrestrial amphibians
- Examination of the effects of fire fuel reduction treatments on spotted owl prey
- Development of a regional model for predicting high-quality flying squirrel habitat
- Development of a regional climate-change monitoring protocol for Research Natural Areas

### Michael Wisdom

PNW (La Grande, OR)

Research Wildlife Biologist and Team Leader

Ecological Process and Function Program

Starkey Ungulate Ecology Team

541-962-6532

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[alias=mwisdom](http://www.fs.fed.us/research/people/profile.php?alias=mwisdom)

#### Interests:

- Effects of human disturbances on wildlife and their habitats
- Effects of ungulates on the processes, structure, and composition of plant communities and ecosystems
- Ungulate landscape habitat relations and modeling predictions of landscape use
- Nutritional ecology of ungulates

#### Current Projects:

- Influence of cattle and elk herbivory on ecosystem patterns and processes
- Elk and mule deer responses to varying levels of motorized access during hunting seasons



## Pacific Southwest Research Station

### Michael Wisdom (continued)

PNW (La Grande, OR)

- Effects of off-road recreation on elk and mule deer
- Elk nutrition and resource selection models of landscape use in the western U.S.
- Guanaco landscape responses to oil and gas development, illegal hunting, motorized access, and livestock grazing in Argentina
- Taruca (Andean deer) behavior and ecology in Argentina

### Eric Abelson

PSW (Davis, California)

Post-doctoral Research Wildlife Biologist

Conservation of Biodiversity

530-759-1726

[eabelson@fs.fed.us](mailto:eabelson@fs.fed.us)

#### *Interests:*

- Large-landscape level habitat and genetic connectivity
- Conservation biology
- Decision support for ecosystem management
- Modeling wildlife movement and dispersal in a gradient of human-dominated landscapes
- Wildlife population persistence and range shifts over long time-scales and in variable climate conditions
- Wildlife behavior and ecology
- Minimally invasive wildlife monitoring

#### *Current projects:*

- Multi-species wildlife movement modeling
- Developing tools to identify where to locate mitigation structures for wildlife movement along linear barriers (i.e. roads)
- Ecosystem management decision support for evaluating management options and strategies
- Identifying the role of the human-built landscape in altering wildlife movement behavior

### John J. Keane

PSW, (Davis, CA)

Research Wildlife Ecologist

Conservation of Biodiversity Program

530-759-1704

[jkeane@fs.fed.us](mailto:jkeane@fs.fed.us)

#### *Interests:*

- Wildlife ecology, conservation and natural history.
- Monitoring of wildlife species and bioregional-scale monitoring and assessment

### John J. Keane (continued)

- Effects of forest management, restoration and wildfire on wildlife and ecosystems. Raptor ecology and conservation

#### *Current Projects:*

- Monitor population trends and demographics of California spotted owls in the Sierra Nevada, California
- Assess effects of forest management, restoration and wildfire on California spotted owls and other wildlife species
- Ecology and conservation of great gray owls in the Sierra Nevada, CA
- Habitat modeling of California spotted owls, great gray owls and northern goshawks in the Sierra Nevada,
- California
- Raptor distribution and monitoring in California

### Christina Liang

PSW (Hilo, HI)

Research Wildlife Biologist

Institute of Pacific Islands Forestry

808-933-8121, x150

[christinaliang@fs.fed.us](mailto:christinaliang@fs.fed.us)

#### *Interests:*

- Ecology and conservation of amphibians
- Pollination biology
- Effects of disturbances on wildlife and habitat
- Invasive species in Hawaii and the Pacific Islands
- Habitat modeling

#### *Current projects:*

- Impacts of non-native predators on pollinators and native plants in Hawaii
- Movements and habitat use of the
- Yosemite toad in California
- Effects of forest management practices on amphibians

### Pat Manley

PSW (Placerville, CA)

Program Manager

Conservation of Biodiversity Program

808-933-8121

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<https://www.fs.fed.us/research/people/profile.php?alias=pmanley>

#### *Interests:*

- Vertebrate community ecology
- Fire, forest management and biodiversity
- Ecosystem services and biodiversity
- Biodiversity conservation



## Pacific Southwest Research Station

### Pat Manley (continued)

- Adaptive management, monitoring, and decision support tools

#### Current Projects:

- Bird and small mammal responses to forest management
- Post-fire bird community response and function
- Indicator development for monitoring and adaptive management across landscapes
- Occupancy modeling for wildlife habitat evaluation across landscapes

### Karen Pope

PSW (Arcata, CA)

Wildlife Biologist

Conservation of Biodiversity Program

707-825-2900

[kpope@fs.fed.us](mailto:kpope@fs.fed.us)

<http://www.fs.fed.us/psw/programs/cb/staff/kpope/>

#### Interests:

- Conservation and ecology of northern California amphibians

#### Current Projects:

- Interactions between amphibians and non-native trout and the amphibian disease chytridiomycosis
- Effectiveness of meadow restoration projects in improving conditions for biodiversity and ecosystem adaptation to climate change

### Kathryn Purcell

PSW (Fresno and San Joaquin Experimental Range, CA)

Research Wildlife Biologist

Conservation of Biodiversity Program

559-868-6233

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<http://www.fs.fed.us/psw/programs/cb/staff/purcell/>

#### Interests:

- Avian life history and habitat requirements
- Wildlife response to natural and anthropogenic change
- Monitoring techniques and design criteria for examining population trends and treatment effects
- Cavity nesting birds and the response of native species to European starlings
- Ecology and habitat relationships of fishers

#### Current Projects:

- Predicting the effects of climate change on avian abundance

### Kathryn Purcell (continued)

- Methods for reducing the impacts of European Starlings on native cavity nesting birds in oak woodlands
- Links between landscape condition and survival and reproduction of fishers in the Kings River Experimental Range and the Landbird Monitoring Network of the Americas

### CJ Ralph

PSW (Arcata, CA)

Emeritus Research Wildlife Biologist

Conservation of Biodiversity Program

707-825-2992

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<http://www.fs.fed.us/psw/programs/cb/staff/cralph/>

#### Interests:

- Behavioral ecology of birds, particularly foraging, population dynamics, and
- demography

#### Current Projects:

- Landbird monitoring, Klamath Landbird Monitoring Network
- Monitoring offshore populations of the old-growth dependent marbled murrelet
- Fate of fisher rest sites over time

### Ted Weller

PSW (Arcata, CA)

707-825-2955

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<http://www.fs.fed.us/psw/programs/cb/staff/tweller/>

#### Interests:

- Bat Ecology <https://batamp.databasin.org/>
- Impacts of Renewable Energy on Wildlife Populations
- Developing quantitative tools for wildlife population assessment
- Migratory and Winter Ecology of Bats in northern California
- Understanding Regional Patterns of Vulnerability to White-Nose Syndrome Using Bats to Sample Environmental Conditions of Hibernacula
- Implementing North American Bat Monitoring Program on Forest Service lands



## Pacific Southwest Research Station

### Hart Welsh

PSW (Arcata, CA)  
Emeritus Research Wildlife Biologist  
Conservation of Biodiversity Program  
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[hwelsh@fs.fed.us](mailto:hwelsh@fs.fed.us)  
<http://www.fs.fed.us/psw/topics/wildlife/herp/>

#### Interests:

- Understanding the relationships between disturbance and the structuring of aquatic, riparian, and terrestrial metacommunities of herpetofauna
- Herpetofaunal assemblages as metrics of natural and anthropogenic processes across landscapes and their embedded stream networks
- The ecological roles of amphibians and reptiles

#### Current projects

- Determining multi-scale spatial relationships of the herpetofaunal metacommunities of whole catchments
- Evaluating the use of woodland salamander assemblages as metrics of seral advancement in redwood forest
- The ecology and conservation of western pond turtle populations
- Unifying the perspectives of fluvial networks, land/water interfaces, disturbance processes, and the nonequilibrium nature of ecosystems, with the distributions of amphibians and reptiles

### Angela White

PSW (Davis, CA)  
Research Wildlife Biologist  
Conservation of Biodiversity program  
530-759-1722  
[angelawhite@fs.fed.us](mailto:angelawhite@fs.fed.us)  
<http://www.fs.fed.us/psw/programs/cb/staff/angelawhite>

#### Interests:

- Effects of wildfire intensity and scale on wildlife habitat
- The effect of landscape heterogeneity on species' distribution, abundance and behavior
- Management and conservation of biodiversity
- Ecology and conservation of forest carnivores
- Creating multiscale habitat models
- Developing models to assist managers in understanding effects of forest management activities on wildlife
- The development and use of noninvasive survey methods for wildlife
- The development of inventory and monitoring approaches, for single and multiple species

#### Current Projects:

- Developing an approach that will allow managers to assess future effects of land management against a template created by characterizing the home range of wildlife species
- Developing and applying noninvasive methods to assess and monitor population size, survival and genetic structure within fossorial mammals, especially the mountain beaver
- Understanding the seasonal dynamics of detection of forest carnivores and the impacts on resulting habitat models
- Learning from a long-term fisher monitoring program in the southern Sierra Nevada

### Jared Wolfe

PSW (Arcata, CA)  
Post-Doctoral Research Wildlife Biologist  
Conservation of Biodiversity Program  
707-825-2900  
[jaredwolfe@fs.fed.us](mailto:jaredwolfe@fs.fed.us)

#### Interests:

- Birds of the western United States, Hawaii and Costa Rica
- How disturbance regimes result in divergent biogeographic processes

#### Current Project:

- Identifying interactions between habitat and climate change on landbird demography California Spotted Owl population modeling and management.

### William J. Zielinski

PSW (Arcata, CA)  
Emeritus Research Wildlife Biologist  
Conservation of Biodiversity Program  
707-825-2959  
[wzielinski@fs.fed.us](mailto:wzielinski@fs.fed.us)  
<https://www.fs.fed.us/psw/programs/cb/staff/wzielinski/index.shtml>

#### Interests:

- Evolutionary consequences of intraspecific differences in behavior
- Retention of women in the sciences

#### Current Projects:

- Forest resilience after large high-severity wildfire, and effects of salvage logging
- Post-fire restoration
- The impact of wildfire on pollinator communities and floral resources
- Integrated evaluation of treatments beyond the Wildland-Urban Interface to restore forests and safeguard communities



## International Institute of Tropical Forestry

### Wayne J. Arendt

IITF (Rio Piedras, Puerto Rico)

Jardin Botanico Sur

787-504-5416

[warendt@fs.fed.us](mailto:warendt@fs.fed.us)

<https://www.fs.fed.us/research/people/profile.php?alias=warendt>

#### Interests:

- Disturbance ecology and conservation of neotropical resident and migratory bird communities; emphasis on population dynamics, avian ectoparasites and life– history strategies
- Proximate and long–term responses of assorted bioindicator taxa to natural and anthropic disturbances in a changing global climate
- Biodiversity’s role in enhancing human livelihoods from revenues generated through ecosystem services and provisioning of comestibles to secure sustainable development in rural communities

#### Current Projects:

- Population dynamics of avian communities inhabiting rain forest (Luquillo Experimental Forest) and dry forest (Guánica Biosphere Reserve in southwestern Puerto Rico) in response to disturbance and climate change
- An evaluation and comparison of vertebrate and invertebrate biodiversity in selected watersheds of Nicaragua to promote the conservation and sustainable use of its natural and human resources

### Joseph M. Wunderle

IITF (Luquillo, Puerto Rico)

Sabana Field Research Station

Program Manager

787-764-7938

[jwunderlejr@fs.fed.us](mailto:jwunderlejr@fs.fed.us)

<https://www.fs.fed.us/research/people/profile.php?alias=jwunderlejr>

#### Interests:

- Ecology of threatened, endangered, or sensitive Neotropical birds in relation to both natural and anthropogenic disturbance
- Effects of hurricanes, agriculture, fire, droughts, selective logging, and urbanization are areas of research interest
- Special interest in winter ecology and conservation of Neotropical-Nearctic migrant birds in the Neotropics, especially in the Caribbean

### Joseph M. Wunderle (continued)

#### Current Projects:

- Winter ecology and conservation of Kirtland’s Warbler, a threatened Neotropical-Nearctic migrant that overwinters exclusively in the Bahamas archipelago
- Puerto Rican breeding bird atlas

## Washington Office Research & Development

### Patrice N. Klein

MS VMD DACPV DACVPM

Senior Veterinary Medical Officer (Wildlife)

Washington Office, Research and Development

(Washington, DC)

202-365-9359

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#### Interests:

- Animal Welfare
- Wildlife Disease
- One Health (environmental-domestic and wild animal-public)

#### Current Projects/Program:

- USFS R&D Institutional Animal Care and Use Committee
- White Nose Syndrome intra-agency and interagency communication and coordination
- Other wildlife disease issues pertinent to USFS – communication and coordination

### Monica Tomosy

Washington Office Research and Development

(Washington D.C.)

703-402-5625

[mstomosy@fs.fed.us](mailto:mstomosy@fs.fed.us)

#### Interests:

- Biological Conservation
- Structured Decision Making Current Projects:
- National Program Leadership
- Science-Management Partnerships
- Information Delivery
- Sagebrush Biodiversity
- Pollinators