

William F. Oakley

Curriculum Vitae

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EDUCATION

Ph.D., Biology. University of Oklahoma (OU), Norman, OK	2023
Graduate Certificate in Earth Observation Science for Society & Sustainability, OU	2017
M.A., Biology. The Citadel Graduate College, The Citadel, Charleston, SC	2014
B.A., Biology. College of Charleston, Charleston, SC	2007

FELLOWSHIPS

NSF National Research Traineeship (NRT) Fellowship, \$39,000 <i>Aeroecology as a Test-bed for Interdisciplinary STEM Training</i>	2017 – 2018
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OTHER GRANTS & AWARDS

OU Biology Department Award for Excellence in Graduate Student Teaching, \$500	2023
OU Biology Department Award for Excellence in Graduate Student Teaching, \$500	2022
Kiawah Conservancy Environmental Research Grant, \$7,920	2019
Purple Martin Conservation Association Research Grant, \$2,380	2019
Kiawah Conservancy Environmental Research Grant, \$7,250	2018
OU Biology Loren G. Hill Excellence Fund, \$500	2018
Helen Miller Payne County Audubon Society Scholarship, \$500	2017
George Miksch Sutton Scholarship in Ornithology, \$600	2017
George Miksch Sutton Scholarship in Ornithology, \$1,185	2016

PUBLICATIONS

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- Contina, A., Alcantara, J. L., Bridge, E. S., Ross, J. D., **Oakley, W. F.**, Kelly, J. F., & Ruegg, K. C. (2019). Genetic structure of the Painted Bunting and its implications for conservation of migratory populations. *Ibis*, 161(2), 372-386.
- Contina, A., Anderson, C. E., Hille, D. C., **Oakley, W. F.**, Bridge, E. S., Kelly, J. F., Smith, H.O., Koch, J., & Jervis, L. L. (2021). Domesticating the Exotic? An Online Survey of Attitudes towards the International Wildlife Pet Trade. *Conservation & Society*, 19(3), 184-189.

PUBLICATIONS IN PREPARATION

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- Oakley, W.F.**, Given, A.G., Patten, M.A., & Bridge, E.S. Translocation experiments reveal strong homing abilities and site fidelity for wintering songbirds in a threatened coastal salt marsh.
- Oakley, W.F.**, Given, A.G., & Bridge, E.S. Annual survival rates and abundances of wintering songbirds in a South Carolina salt marsh.
- Oakley, W.F.** & Bridge, E.S. Predicting the impacts of future sea-level rise on wintering habitat for three tidal marsh songbird species at a South Carolina barrier island.
- LePage, H.K., Bridge, E.S., **Oakley, W.F.**, & Heaston, A. Comparison of migratory and resident bird species in a contaminated environment.

CONFERENCE PRESENTATIONS

- Oakley, W.**, Bridge, E., Smith-Patten, B., Patten, M. Can we use drones to locate and track Black Rails (*Laterallus jamaicensis*) during the breeding season? (poster). April 2017. Southwestern Association of Naturalists Conference. Lawton, OK.
- Oakley, W.**, Bridge, E. Modeling Distributions of Disjunct Populations of Nelson's Sparrow (*Ammodramus nelsoni*). (poster). North American Ornithological Congress, Washington DC, 16-20 August, 2016.
- Bridge, Eli S., K. Broadfoot, P. B. Chilson, A. J. Contina, T. Fagin, K. Goodenough, K. Horton, J. F. Kelly, G. Melhado, **W. Oakley**, S. Pletschet, K. Stumpf. Macro-scale analysis of Purple Martin roosting populations using NEXRAD. North American Ornithological Congress, Washington DC, 16-20 August 2016.
- E Bridge, J Ruyle, ID Grady, GP Robinson, **WF Oakley**, HK Lepage. A low-cost RFID reader and electronics platform for biological research. (poster). August 2017. Meeting of the American Ornithological Society (AOS) and Society for Canadian Ornithologists (SOC). East Lansing, Michigan, USA.

WORKSHOPS & PROFESSIONAL DEVELOPMENT

3 rd Radar Aeroecology Training School, OU, Norman, OK	2019
Science Through Multimedia Stories Workshop, Albuquerque, NM	2018
<i>Society for Vertebrate Paleontology 2018 Meeting</i>	
NSF National Research Traineeship Program, OU, Norman, OK	2015 – 2018
Program MARK Workshop, OU, Norman, OK (<i>Co-organizer</i>)	2018
sUAS Remote Pilot License Test Prep Course, OU, Norman, OK	2017
Professional Ethics Training/Responsible Conduct of Research Seminar, OU, Norman, OK	2016
Software Carpentry Workshop, OU, Norman, OK	2016
Advanced Programming and Graphing in R Workshop, Washington, DC	2016
<i>North American Ornithological Conference</i>	
Introduction to R Workshop, OU, Norman, OK	2015
<i>Annual Meeting of the American Ornithologists' Union and the Cooper Ornithological Society</i>	
Careers in Ornithology, OU, Norman, OK	2015
<i>Annual Meeting of the American Ornithologists' Union and the Cooper Ornithological Society</i>	

SERVICE TO INSTITUTION

Sam Noble Museum at the University of Oklahoma

- Outreach Event Volunteer, Full S.T.E.A.M Ahead at Sam Noble, 2022.
- Bird Specimen Preparation Volunteer, Ornithology Collection, 2016 – 2017.

University of Oklahoma

- Teaching Assistant, Coding Outreach for Data Education (CODE) Workshop, 2022.

SERVICE TO PROFESSION

Journal Services – Peer Reviewer

Southwestern Naturalist (2016), The Auk: Ornithological Advances (2017)

Professional Memberships

American Ornithological Society
Association of Field Ornithologists
Association of Southeastern Biologists

FIELD RESEARCH EXPERIENCE

Savannah Sparrow Monitoring Research Volunteer (Kent Island, Canada), University of Guelph	2017
Black Rail Survey Technician, Oklahoma Dept. of Wildlife Conservation	2017
Grassland & Breeding Bird Survey Field Crew Leader, Oklahoma Biological Survey, OK	2015
Winter Marsh Sparrow Population Monitoring Volunteer, Town of Kiawah Island, SC	2012 – 2018
Bird & Bat Survey Wildlife Technician (Lewes, DE), University of Delaware, DE	2012
Migratory Bird Survey Field Technician, University of Southern Mississippi, MS	2011
Fall Migration Bird Banding Assistant, Town of Kiawah Island, SC	2010 – 2014
Bird Banding Research Volunteer (Peru), University of Florida	2010

TEACHING EXPERIENCE

Graduate Teaching Assistant, OU, Department of Biology, <i>Principles of Physiology Lab</i>	2020 – 2023
Graduate Teaching Assistant, OU, Department of Biology, <i>Intro Biology Lab</i>	2019
Graduate Teaching Assistant, OU, Department of Biology, <i>Human Anatomy Lab</i>	2016
Instructor, OU, Department of Biology, <i>Electronics for Non-Engineers</i>	2019
Undergraduate Tutor, The Citadel, Academic Support Center, <i>Biology/Chemistry/Writing</i>	2014 – 2015

COMPUTER SOFTWARE SKILLS

R; Program MARK; ArcGIS 10.x; ArcGIS Pro; QGIS; Sea Level Affecting Marshes Model (SLAMM); MS Office; Zotero; Biopac Student Lab; Logger Pro; MaxEnt; NOAA's Weather and Climate Toolkit (WCT); Arduino.

SPECIALIZED FIELD SKILLS

Bird banding (over 2,500 passerines and near-passerine banded); Mist-netting of birds; Radio telemetry of birds; Point-count and transect surveys for birds; Designing and conducting translocation/displacement experiments with birds; Blood and feather sampling of birds; Carcass surveys for birds and bats; Operating acoustic recording equipment (e.g., Wildlife Acoustics SM2 recorders) for bird and bat flight calls; Operating thermal imaging camera and screening thermal video for birds and bats; Deploying light-level geolocators.

Land and water vehicles: 4WD; Manual transmission autos; Small horsepower boats in tidal marshes and near-coast waters; Flat-water and river canoeing; Flat-water kayaking; Standup paddleboarding; Towing RVs and motorboat trailers; UAV/Drone operation (e.g., DJI Phantom 4 drone).

SPECIALIZED ANALYTICAL SKILLS

Estimation of demographic parameters using mark-recapture data; Survival analysis techniques (e.g., Kaplan Meier method and Cox Proportional Hazards modeling); Modeling future sea level rise impacts on coastal habitats; Likelihood-ratio tests and logistic regression models; Least cost path (LCP) analyses; Multi-model selection (AIC).

Familiarity with developing and/or coding agent-based models (ABMs), Bayesian analyses, species distribution models (SDM), population viability analyses (PVA), and extraction of data from still images and video using the R programming environment.

OTHER PROFESSIONAL EXPERIENCE

Naturalist (Nature Tour Guide), Kiawah Island Golf Resort, Kiawah Island, SC	2009 – 2013
Children's Ski Instructor, Canyons Resort, Park City, UT	2008 – 2009
Wilderness Trip Leader, Camp North Star for Boys, Hayward, WI	2008
Teaching Intern, The Leadership School at Kieve-Wavus, Nobleboro, ME	2008
Intern, National Outdoor Leadership School (NOLS), Tucson, AZ	Fall 2007

LEADERSHIP & OUTDOOR SKILLS EDUCATION

National Outdoor Leadership School (NOLS), Semester in the Southwest

Spring 2006

An 88-day expedition-based leadership and outdoor recreation course in Arizona and New Mexico with technical skills training in river canoeing, rock climbing, caving, backcountry travel, orienteering, backpacking, and camping.

Boy Scouts of America

1995 – 1998

Eagle Scout awarded (1998)

See next page for contact information for professional references.

Professional References

Dr. Eli Bridge

Assistant Professor
Oklahoma Biological Survey
University of Oklahoma
111 E. Chesapeake St
Norman, OK 73019
ebridge@ou.edu

Dr. Jeff Kelly

George Lynn Cross Professor and Chair of the Department of Biology
Department of Biology
University of Oklahoma
730 Van Vleet Oval, Room 314
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Dr. Michael Patten

Professor of Terrestrial Ecology and Nature Management
Ecology Research Group
Faculty of Biosciences and Aquaculture
Nord University
Steinkjer, Norway
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Dr. Katie Willis

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Department of Biology
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Aaron Given

Assistant Wildlife Biologist
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Dr. Andrea Contina

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School of Integrative Biological and Chemical Sciences
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