

Eva Windhoffer, MS
 Avian Ecologist
 The Water Institute
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EDUCATION

Nicholls State University	Thibodaux, LA	Marine and Environmental Biology	MS, 2017
University of Maryland	College Park, MD	Plant and Wildlife Management	BS, 2011

RESEARCH INTERESTS

Coastal ecology, ornithology, wildlife biology, project management, data management, technical writing.

PROFESSIONAL EXPERIENCE

The Water Institute	Avian Ecologist	2020–Present
Louisiana Oil Spill Coordinator’s Office	Coastal Resource Scientist III	2017–2020
Nicholls State University	Research Assistant/Graduate Teaching Assistant	2015–2017
Barataria Terrebonne National Estuary Program	Biological Technician/Contractor	2015
Stephen F. State University	Biological Science Technician	2014
National Park Service	Exotic Plant Management Team Intern	2013–2014
Mississippi Department of Marine Resources	Marsh Bird Technician	2013
Edwin B. Forsyth National Wildlife Refuge	USFWS Biology Intern	2012

PROFESSIONAL MEMBERSHIPS

- The Wildlife Society

AWARDS AND HONORS

- 1st Place, Dorothy Dorsett Brown Innovation in Science Award, 2024

TEACHING EXPERIENCE

Teaching assistant, general biology II laboratories (gave weekly lectures and supervised students during lab experiments, proctored practicals and exams), Nicholls State University (2015–2017).

TRAINING COURSES

- Communicating with Tact and Professionalism (SkillPath), 2022
- Professional in Project Management (PPM), Global Association for Quality Management, 2021
- HazMat Technician, 40 Hour, 2018
- Science of Oil Spills, NOAA, 2018
- ICS Training 100, 200, 300, 400, 700 & 800, 2018

NOTABLE PROJECTS

Lead Investigator/Barrier Island Habitat Assessment for Coastal Waterbirds Current
Brown Foundation

Barrier islands are ecologically and structurally important features for coastal bird communities. This project is developing a machine learning workflow that can be used to process and analyze bird and habitat data from aerial imagery and fill in associated data gaps for restoration design. This is a cross-disciplinary effort providing a novel approach to inform barrier island restoration and bird conservation activities in Louisiana.

Technical Support/Gulf of Mexico Colonial Waterbird Data Management Current
Louisiana Department of Wildlife and Fisheries and Louisiana Trustee Implementation Group

The collection and analysis of aerial photographic surveys have been used to monitor shrub- and select ground-nesting waterbird species across the GOM. This project entails data management of >25,000 photos and associated databases through the development of an online portal.

Program Coordinator/Louisianan RESTORE Act Center of Excellence Current
Coastal Protection and Restoration Authority

The mission of the RESTORE Act Center of Excellence for Louisiana (LA-COE) is to provide research directly relevant to implementation of Louisiana’s Coastal Master Plan by administering a competitive grants program and providing the appropriate coordination and oversight support to ensure that success metrics are tracked and achieved.

Technical Support/Maximizing Habitat Benefits for Bird Nesting from Habitat Restoration 2020–2023
Louisiana Department of Wildlife and Fisheries and Louisiana Trustee Implementation Group

This project involves the development of a coastal ecosystem restoration and monitoring guidance document to create/improve bird nesting habitat. For aspects of

different habitat restoration projects (e.g. barrier island restoration or marsh creation), design elements with potential flexibility under the control of the project team were identified. It is anticipated that this document will inform future restoration project design to increase benefits through the construction and enhancement of preferential avian habitat.

PUBLISHED WORKS

Peer-Reviewed Publications

- Windhoffer, E. D., Carruthers, T. J. B., Henkel, J., Gleason, J. S., & Wiebe, J. J. (2024). Leveraging co-production within ecosystem restoration to maximize benefits to coastal birds. *Journal of Environmental Management*, 360, 121093.
- Windhoffer, E., & Pierce, A. (2021). Video monitoring of waterbird colonies reveals novel predator. *Waterbirds*, 44(1).
- Windhoffer, E. (2021). Natural history notes: *Nerodia rhombifer* (Diamond-backed watersnake) albinism. *Herpetological Review*.
- Windhoffer, E., Owen, T., Liechty, J., Minor, A., Curtiss, D., Nepshinsky, M., & Pierce, A. (2017). Variability in Gull-Billed Tern breeding parameters at the Isles Dernieres Barrier Islands Refuge, Louisiana, USA. *Waterbirds*, 40(4), 390–395.
- Rolland, V., Nepshinsky, M., Windhoffer, E.D., Liechty, L.S., Minor, A.K., and Pierce, A.R. 2020. Foraging areas and movements of Royal Tern *Thalasseus maximus* at the Isles Dernieres Barrier Island Refuge, Louisiana. *Marine Ornithology* 48(2).
- Nepshinsky, M., S. Taylor, J.S. Liechty, A.K. Minor, E.D. Windhoffer, and A.R. Pierce. 2021. Morphometric sex determination of breeding adult Royal Terns *Thalasseus maximus* and Sandwich Terns *T. sandvicensis* in Louisiana. *Marine Ornithology* 49(1).

Technical Reports

- U.S. Army Corps of Engineers. (2024). *Installations, Energy, and Environment Technology Innovation Strategy* (p. 48). U.S. Army Corps of Engineers. Developed in partnership with The Water Institute. (Supporting author)
- Deepwater Horizon Louisiana Trustee Implementation Group. (2023). *Guidance for coastal ecosystem restoration and monitoring to create or improve bird-nesting habitat* (p. 152). (Supporting author)
- Ehrenwerth, J., Jones, S. B., Windhoffer, E., Fischbach, J., Hughes, S., Hughes, T., Pippin, S., Shudtz, M., & Jones, S. (2022). *Enhancing benefits evaluation for water resources projects: Towards a more comprehensive approach for nature-based solutions* (Evolution of Benefits Evaluation and Prioritization of Water Resources Projects) [Technical report]. U.S. Army Corps of Engineers' Engineering with Nature Program.

Conference Proceedings and Presentations

- Windhoffer, E. (2024). *An overview of the guidance document for avian habitat restoration and monitoring* [Virtual]. CPRA Coastal Week.
- Windhoffer, E. (2023). *An overview of the guidance document for avian habitat restoration and monitoring*. State of the Coast, New Orleans, LA.
- Windhoffer, E. (2022). *An overview of the guidance document for avian habitat restoration and monitoring*. Restore Americas Estuaries, New Orleans, LA.
- Windhoffer, E. (2019). *Oil spills and birds: From response to restoration*. BTNEP Management Conference, Thibidoux, LA.
- Windhoffer, E., & Saizan, G. (2019). *Oil spills and birds: From response to restoration*. Sea Grant Birds & Oil Spills Workshop, Baton Rouge, LA.
- Windhoffer, E. (2018). *From response to restoration—Three Louisiana coastal oil spills that lead to one restoration project*. Clean Gulf, New Orleans, LA.