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| Education | 2014 | Ph.D., University of Maine, Ecology & Environmental Sciences |
| | 2007 | M.S., University of Florida, Wildlife Ecology and Conservation |
| | 2004 | B.A., Whitman College, Biology |
| Experience | 2021 - present | Director, Quantitative Wildlife Ecology Research Lab, Biodiversity Research Institute, Portland, ME |
| | 2015 - 2021 | Quantitative Ecologist, Biodiversity Research Institute, Portland, ME |
| | 2015 - 2017 | Post-doctoral Researcher, University of Washington, Seattle, WA |
| | 2010 - 2015 | Migratory Bird Program Director, Biodiversity Research Institute |

Peer-reviewed Publications

- Adams, E.M.**, Gulka, J.E., Yang, Y., Burton, M.E., Burns, D.A., Buxton, V., Cleckner, L., DeSorbo, C.R., Driscoll, C.T., Evers, D.C. and Fisher, N., 2023. Distribution and trends of mercury in aquatic and terrestrial biota of New York, USA: a synthesis of 50 years of research and monitoring. *Ecotoxicology*, pp.1-18.
- Sayers, C.J., Evers, D.C., Ruiz-Gutierrez, V., **Adams, E.**, Vega, C.M., Pisconte, J.N., Tejada, V., Regan, K., Lane, O.P., Ash, A.A. and Cal, R., 2023. Mercury in Neotropical birds: a synthesis and prospectus on 13 years of exposure data. *Ecotoxicology*, pp.1-28.
- Meier, A.C., Bourgeois, S., **Adams, E.**, Bikang, H., Jasperse-Sjolander, L., Lewis, M., Masseloux, J., Morin, D.J. and Poulsen, J.R., 2023. Fruit availability and human disturbance influence forest elephant group size. *Animal Behaviour*, 203, pp.171-182.
- Goetsch, C., Gulka, J., Friedland, K., Winship, A., Clerc, J., Gilbert, A., Goyert, H., Stenhouse, I., Williams, K., Willmott, J., Rekdahl, M., Rosenbaum, H., and **Adams, E.M.** 2023. Surface and subsurface oceanographic features drive forage fish distributions and aggregations: Implications for prey availability to top predators in the US Northeast Shelf ecosystem. *Ecology and Evolution* 13(7), e10226
- Gulka, J., Berlin, A.M., Friedland, K.D., Gilbert, A.T., Goetsch, C., Montevecchi, W.A., Perry, M., Stenhouse, I.J., Williams, K.A. and **Adams, E.M.**. 2023. Assessing individual movement, habitat use, and behavior of non-breeding marine birds in relation to prey availability in the US Atlantic. *Mar Ecol Prog Ser*, 711, 77-99.
- Friedland, K.D., **Adams, E.M.**, Goetsch C., Gulka, J., Brady, D.C., Rzeszowski, E., Crear, D.P., Gaichas, S., Gill, A.B., McManus, M.C., Methratta, E.T., Morano, J.L., Staudinger, M.D. 2023. Forage fish species prefer habitat within designated offshore wind energy areas in the U.S. Northeast Shelf Ecosystem. *Marine and Coastal Fisheries, Marine and Coastal Fisheries*, 15(2), p.e10230.
- Fournier, A.M.V, Wilson, R.R., Gleason, J.S., **Adams, E.M.**, Brush, J.M., Cooper, R.J., DeMaso, S.J., Driscoll, M.J.L., Frederick, P.C., Jodice, P.G.R., Ottinger, M.A., Reeves, D.B., Seymour, M.A., Sharuga, S.M., Tirpak, J.M., Vermillion, W.G., Zenzal, T.J., Lyons, J.E., Woodrey, M.S. 2023. *Structured Decision Making To Prioritize Regional Bird Monitoring Needs* INFORMS Journal on Applied Analytics doi: 10.1287/inte.2022.1154
- Adams, E.M.**, I.J. Stenhouse, A. Gilbert, J. Boelsma, G. Gress, C. Grigsby, E. Williams, L. Phillips, C. McIntyre. 2022. The first documentation of the Nearctic-Paleotropical migratory route of the Arctic Warbler. *Ecology and Evolution*, 12(9), p.e9223

- Carravieri, A., O. Vincze, P. Bustamante, J.T. Ackerman, **E.M. Adams**, F. Angelier, O. Chastel, Y. Cherel, O. Gilg, E. Golubova, and A. Kitaysky. 2022. Quantitative meta-analysis reveals no association between mercury contamination and body condition in birds. *Biological Reviews*.
- Adams, E.M.**, J. Gulka, and K.A. Williams. 2021. Examining the effectiveness of blanket curtailment strategies in reducing bat fatalities at terrestrial wind farms in North America. *PloS One*, 16(11), p.e0256382.
- Saunders, S.P., J.X. Wu, E.A. Gow, **E.M. Adams**, B.L. Bateman, T. Bayard, S. Beilke, A.A. Dayer, A.M. Fournier, K. Fox, and P. Heglund. 2021. Bridging the research-implementation gap in avian conservation with translational ecology. *The Condor*, 123(3), p.duab018.
- Friedland, K., E.T. Methratta, A.B. Gill, S.K. Gaichas, T.H. Curtis, **E.M. Adams**, J.L. Morano, D.P. Crear, M.C. McManus, D.C. Brady. 2021. Resource occurrence and productivity in existing and proposed Wind Energy Lease Areas on the US Northeast Shelf. *Frontiers in Marine Science* 8:336.
- Adams, E.M.**, K.A. Williams, B.J. Olsen, and D.C. Evers. 2020. Mercury exposure in migrating songbirds: correlations with physical condition. *Ecotoxicology* 29:1240-1253 <https://doi.org/10.1007/s10646-020-02190-8>
- Lane, O., **E.M. Adams**, N. Pau, K. O'Brien, K. Regan, M. Farina, T. Schneider-Moran, and J. Zarudsky. 2020. Long-term monitoring of mercury in adult saltmarsh sparrows breeding in Maine, Massachusetts and New York, USA 200-2017. *Ecotoxicology* <https://doi.org/10.1007/s10646-020-02180-w>
- Adams, E.M.**, A.K. Sauer, O. Lane, K. Regan, and D.C. Evers. 2019. The effects of climate, habitat, and trophic position on methylmercury bioavailability for breeding New York songbirds. *Ecotoxicology*, 29:1843-1861 <https://doi.org/10.1007/s10646-019-02151-w>
- Sauer, A.K., C.T. Driscoll, D.C. Evers, **E.M. Adams**, and Y. Yang. 2020. Mercury exposure in songbird communities within Sphagnum bog and upland forest ecosystems in Adirondack Park (New York, USA). *Ecotoxicology*, <https://doi.org/10.1007/s10646-019-02142-x>
- Sauer, A.K., C.T. Driscoll, D.C. Evers, **E.M. Adams**, and Y. Yang. 2020. Mercury exposure in songbird communities along an elevational gradient on Whiteface Mountain, Adirondack Park (New York, USA). *Ecotoxicology*, <https://doi.org/10.1007/s10646-020-02175-7>
- Stenhouse, I. J., Adams, E. M., Phillips, L. M., Weidensaul, S., & McIntyre, C. L. (2019). A preliminary assessment of mercury in the feathers of migratory songbirds breeding in the North American subarctic. *Ecotoxicology*, 1–8.
- Paruk, J.D., I.J. Stenhouse, B.J. Sigel, **E.M. Adams**, W.A. Montevecchi, D.C. Evers, A.T. Gilbert, M. Duron, D. Long IV, J. Hemming, and P. Tuttle. 2019. Oiling of American white pelicans, common loons, and northern gannets in the winter following the Deepwater Horizon (MC252) oil spill. *Environmental Monitoring and Assessment* 191(Suppl 4): 817.
- Sussman, A.L., B. Gardner, **E. M. Adams**, L. Salas, K.P. Kenow, D.R. Luukkonen, W.P. Muller, K.A. Williams, M. Leduc-Lapierre, and E.F. Zipkin. 2019. A comparative analysis of common methods to identify waterbird hotspots. *Methods in Ecology and Evolution* 10(9):1454-1468.
- Tsui, M.T.K., **E.M. Adams**, A.K. Jackson, D.C. Evers, J.D. Blum, and S.J. Balogh. 2018. Understanding sources of methylmercury in songbirds with stable mercury isotopes: Challenges and future directions. *Environmental toxicology and chemistry*, 37(1): 166-174.
- Fallon, J.A., E.P. Smith, N. Schoch, J.D. Paruk, **E.M. Adams**, D.C. Evers, P.G.R. Jodice, C. Perkins, and W.A. Hopkins. 2018. Hematological indices of injury to lightly oiled birds from the Deepwater Horizon oil spill. *Environmental Toxicology* 37(2):451-461.

- Paruk, J, M Chickering, D Long IV, H Uher-Koch, A. East, D. Poleschook, V. Gumm, W Hanson, **E.M. Adams**, K Kovach & D Evers. 2015. Winter site fidelity and winter movements in Common Loons (*Gavia immer*) across North America. *Condor: Ornithological Applications* 117:485-493.
- Olsen, B.J., J.D. McCabe, **E.M. Adams**, D. Grunzel, and A.J. Leppold. 2015. Phenological synchrony of North American bird migration with seasonal resources in a changing climate. E. M. Wood and J. L. Kellermann (editors). *Studies in Avian Biology* (47), CRC Press, Boca Raton, FL.
- Jackson, A.K., D.C. Evers, **E.M. Adams**, D.A. Cristol, C. Eagles-Smith, S.T. Edmonds, C.E. Gray, B. Hoskins, O.P. Lane, A. Sauer, and T. Tear. 2015. Songbirds as sentinels of mercury in terrestrial habitats of eastern North America. *Ecotoxicology* 24:453-467.
- Yates, D.E., **E.M. Adams**, S.E. Angelo, D.C. Evers, J. Schmerfeld, M.S. Moore, T.H. Kunz, T. Divoll, S.T. Edmonds, C. Perkins, R. Taylor, and N.J. O'Driscoll. 2014. Mercury in bats from the northeastern United States. *Ecotoxicology* 23(1):45-55.
- E. M. Adams** and P. C. Frederick. 2009. Sex-related mortality due to a starvation event in White Ibis (*Eudocimus albus*) in the Florida Everglades. *Waterbirds* 32(1) 123:127.
- E. M. Adams**, P. C. Frederick, I. L. V. Larkin, and L. J. Guillette, Jr. 2009. The effects of chronic methylmercury exposure upon fecal testosterone, estradiol, and corticosterone levels in juvenile White Ibises (*Eudocimus albus*). *ETC* 28(5):982-989.
- E. M. Adams** and P. C. Frederick. 2008. Effects of methylmercury and spatial complexity on foraging behavior and efficiency in juvenile White Ibises (*Eudocimus albus*). *ETC* 27(8):1708-1712.

Data Products

- Gulf Coastal Plains and Ozarks Landscape Conservation Cooperative. 2019. Tidal marsh bird atlas for the northern Gulf of Mexico. <https://gcpolcc.databasin.org/>
- Williams, K.A., I.J. Stenhouse, E.E. Connelly, and S.M. Johnson. 2015. Mid-Atlantic Wildlife Studies: Distribution and Abundance of Wildlife Along the Eastern Seaboard 2012-2014.

Peer-reviewed Reports

- Fournier, A.M.V., Wilson, R.R., Lyons, J.E., Gleason, J.S., **Adams, E.M.**, Barnhill, L.M., Brush, J.M., Cooper, R.J., DeMaso, S.J., Driscoll, M.J.L., Eaton, M.J., Frederick, P.C., Just, M.G., Seymour, M.A., Tirpak, J.M, and Woodrey, M.S., 2021, Structured decision making and optimal bird monitoring in the northern Gulf of Mexico: U.S. Geological Survey Open-File Report 2020–1122, 62 p., <https://doi.org/10.3133/ofr20201122>.
- Adams, E.M.**, A.M.V. Fournier, and M.S. Woodrey. 2019. Integration and collaboration across the Gulf of Mexico. Pages 297-306 in R.R. Wilson, A.M.V. Fournier, J.S. Gleason, J.E. Lyons, and M.S. Woodrey (Editors), *Strategic Monitoring Guidelines for the Northern Gulf of Mexico*, Mississippi Agricultural and Forestry Experiment Station Research Bulletin 1228, Mississippi State University, 324 pp.
- Jodice, P.G.R., **E.M. Adams**, J. Lamb, Y Satge, and J.S. Gleason. 2019. GoMAMN Strategic Bird Monitoring Guidelines: Seabirds. Pages 129-170 in R.R. Wilson, A.M.V. Fournier, J.S. Gleason, J.E. Lyons, and M.S. Woodrey (Editors), *Strategic Monitoring Guidelines for the Northern Gulf of Mexico*, Mississippi Agricultural and Forestry Experiment Station Research Bulletin 1228, Mississippi State University, 324 pp.
- Adams, E.M.**, I. Stenhouse, A. Gilbert, K. Williams & W. Montevecchi, 2015. Using state-space models to identify areas of persistent winter activity and their associated environmental covariates in Northern Gannets. Final Report to the Department of Energy Wind and Water Power Technologies Office.

Workshops and Training Activities

- 2022 A focused workshop on non-academic research and conservation positions: What are our options and how do we fledge the nest – American Ornithological Society/BirdsCaribbean Annual Meeting
- 2021 Introduction to Analyzing Count Data in *unmarked* – American Ornithological Society/Canadian Society for Ornithology (*virtual conference*)
- Taking flight: A workshop for ornithologists exploring careers outside academia– American Ornithological Society/Canadian Society for Ornithology (*virtual conference*)
- 2020 Introduction to Analyzing Count Data in *unmarked* – North American Ornithological Conference (*virtual conference*)
- 2019 Introduction to R for Ornithologists – American Ornithological Society Annual Meeting (Anchorage, AK)

Synergistic Activities:

- 2023 – present Chair of the Gulf of Mexico Avian Monitoring Network (GoMAMN)
- 2021 - present Travel and Presentation Awards Committee, American Ornithological Society
- 2021 - 2023 Vice Chair of the Gulf of Mexico Avian Monitoring Network (GoMAMN)
- 2020 - present Scientific Program Committee and Meeting Coordination Committee, American Ornithological Society
- 2016 - 2021 Early Professional Subcommittee co-chair for the American Ornithological Society
- 2015 - present Co-lead of the Seabird Working Group, GoMAMN
- 2013 - 2021 Steering Committee Member, Gulf of Mexico Avian Monitoring Network (GoMAMN)
- 2011 - present Co-lead of the River Point Bird Observatory, Falmouth, ME

Grants and Awards:

- 2023 Benthic habitat change due to offshore wind and its effects on wildlife (NYSERDA, \$499k)
Offshore wind risk assessment in the Gulf of Mexico (USFWS, \$173k)
State wildlife grant for Nightjar monitoring in the state of Maine (Maine Inland Fish and Wildlife, \$72,000)
- 2022 Wildlife and Offshore Wind (WOW): A Systems Approach to Research and Risk Assessment for Offshore Wind Development from Maine to North Carolina (Dept. of Energy and BOEM, via a subcontract to Duke University; \$988k)
- 2021 Restoration of Gulf of Mexico islands and beaches for wildlife: Reducing the uncertainty (NOAA RESTORE, \$103k)
Designing effective stewardship and post-restoration management plans through co-production to protect vulnerable Gulf of Mexico coastal birds (NOAA RESTORE, \$97k)
USFWS Regional Directors Award – Southeast Region
- 2019 Multi-scale relationships between marine predators and the distribution of forage fish (NYSERDA; \$493k)
Development of Monitoring Protocols for Nanotag Studies at Offshore Wind Farms (NYSERDA, via a subcontract with USFWS; \$181k)

- 2015 Meta-analysis of the Effectiveness of Curtailment at Different Cut-in Speeds in Reducing Bat Mortality (American Wind Wildlife Institute's Wind Wildlife Research Fund, \$47k)
Mapping Avian Resources in the Great Lakes (Great Lakes Commission, \$212k)
Developing Technology for Offshore Collision Risk Detection (Department of Energy, \$1.1M)
- 2014 Clapper Rails as Indicators of Ecological State for Gulf Coast Tidal Marshes (USFWS Gulf Restoration Program, subcontract from Mississippi State University \$40k)
- 2013 Monitoring Spatial Gradients and Temporal Trends of Mercury in Songbirds of New York State, 2013–2017 (NYSERDA, \$597k)
- 2012 Songbird mercury monitoring in National Parks (National Park Service, \$50k)
- 2011 Mid-Atlantic Baseline Studies Project: Modeling Wildlife Densities and Movements Across Spatial and Temporal Scales on the Mid-Atlantic Outer Continental Shelf (Dept. of Energy, \$4.5M)

Professional Affiliations:

American Ornithologist Society – Elective Member

Society of Field Ornithologists

Wilson Ornithological Society

Waterbirds Society

Society of Conservation Biology

Ecological Society of America