

JACQUELYN K. GRACE

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EDUCATION

Wake Forest University

Ph.D. Biology, 2014

Advisor: Dr. David J. Anderson

Dissertation: Endocrine-mediated organizational effects on personality and stress in Nazca boobies

Willamette University

Advisor: Dr. David P. Craig

B. A. Biology, Magna Cum Laude, 2007

Senior Thesis: The development and lateralization of prey delivery in a bill-load holding bird.

Secondary Senior Project: Habitat use of Western scrub-jays along a suburban-rural gradient.

Study abroad: University of Chester, United Kingdom, Spring Semester 2006

ACADEMIC APPOINTMENTS

Assistant Professor, Dept. of Ecology and Conservation Biology, Texas A&M Univ.

2020-present

Assistant Professor, Dept. of Wildlife and Fisheries Sciences, Texas A&M Univ.

2016-2020

Postdoctoral Fellow, Centre d'Etudes Biologiques de Chizé

2014-2016

Centre National de la Recherche Scientifique, Université de la Rochelle

Mentor: Dr. Frédéric Angelier

Adjunct Professor, Department of Biology, Wake Forest University

Spring 2014

AWARDS and FELLOWSHIPS

Association of Former Students College-Level Teaching Award, College of Agriculture and Life Sciences, Texas A&M University, 2025.

Elective Member of the American Ornithological Society. Nominated and elected by the Committee on Nomination of Fellows and Elective Members, 2024.

Montague-Center for Teaching Excellence Scholar Award, Texas A&M University, 2023, \$6500.

U.S. Fish and Wildlife Service Regional Director's Honor Award for Conservation Partner, 2021.

ADVANCE NCFDD Faculty Success Fellowship, Texas A&M University, 2020. \$3600.

International Society for Behavioral Ecology Congress, Travel Award 2016, \$700.

Fyssen Foundation, Postdoctoral Fellowship, Centre d'Etudes Biologique de Chizé, 2014, \$53,761.

Society for Integrative and Comparative Biology, DAB Best Student Oral Presentation finalist, 2014.

Elton C. Cooke Award, Outstanding Graduate Student, Wake Forest Univ. Biology Dept., 2013.

National Science Foundation Graduate Research Fellowship, 2008-11.

Dean's Fellowship, Wake Forest University Graduate School, 2007-08.

North American Ornithological Conference Travel Award, 2006.

GRANTS

American Association of Zoo Veterinarians Wildlife Health Fund, PI. "Health effects of high incubation temperatures in wild birds", 2025, \$19,000.

NOAA RESTORE Coastal Stewardship, Co-PI. "Evaluating efficacy of stewardship actions for vulnerable Gulf of Mexico coastal birds through co-production between scientists and resource managers", 2023, \$1.99 million (\$176,771 to Grace).

NOAA/Gulf of Mexico Alliance, PI. "Evaluation of microplastics and ecotoxins in waterfowl", 2023, \$89,388.

Morris Animal Foundation, PI. "Impacts of mercury on the health of coastal wetland birds in Texas", 2021, \$80,206.

NOAA RESTORE Planning Actionable Science, co-PI. "Designing effective stewardship and post-restoration management plans through co-production to protect vulnerable Gulf of Mexico coastal birds," 2021, \$103,766.

Gulf Coast Bird Observatory, PI, Contract for Services, 2021, \$2550.

- T3: Texas A&M Triads for Transformation, PI, “Disentangling Effects Of “Stress” on the Avian Immune System – Hormonal and Environmental Factors”, 2020, \$32000.
- Brazos Chapter of the Audubon Society research grant, PI, 2019, \$5000.
- T3: Texas A&M Triads for Transformation, co-PI, “Avian Consortium for Ecohealth: Assessment of Avian and Ecological Health in Texas”, 2018, \$34000.
- Texas Department of Transportation Research Grant, co-PI, “Daily and Seasonal Movements of Brown Pelicans in the Bahia Grande Wetland Complex”, 2017, \$235,381 (\$94,719 to Grace).
- Texas EcoLab, PI, “Physiological costs of intraspecific brood parasitism and consequences for fitness in waterfowl”, 2018, \$2,566.
- TAMU COALS, Neuhaus-Shepardson Grant, 2017, \$650.
- TAMU COALS, Individual Graduate Recruiting Grant (4 awards) 2017, 2018, \$3800.
- National Science Foundation Dissertation Improvement Grant, June 2011, \$14,974.
- American Ornithologist’s Union Research Award, 2008, \$2000.

PUBLICATIONS (* indicates undergraduate, graduate, or postdoctoral student co-author and mentee)

Peer-reviewed articles

35. Andringa, R. K.*, Bruni, N. A., Smith, J. A., Prestridge, H. L., Thornton, R., **Grace, J. K.** 2025. Gastric lavage may not be representative of total microplastic ingestion for a wild passerine bird. *PLoS One* 20(10): e0334891. Doi: 10.1371/journal.pone.0334891
34. Angelier, F., Dupont, S. M., **Grace, J. K.** 2025. When urban exploiters cannot cope with urban stressors anymore: Lessons from an experimental manipulation of developmental corticosterone levels in the house sparrow (*Passer domesticus*). *Annales d’Endocrinologie*: 101764. Doi: 10.1016/j.ando.2025.101764
33. Kimmitt, A. A.*, Angelier, F., **Grace, J. K.** 2025. Postnatal glucocorticoid exposure causes long-lasting effects on competitive but not neophobic behaviors in a common songbird. *Hormones and Behavior* 169: 105696. Doi: 10.1016/j.yhbeh.2025.105696
32. Fuller, J. L., Michel, N. L., Adams, E. M., Darrah, A. J., Fournier, A. M.V., **Grace, J. K.**, Koczur, L., Kraft, B. A. C., Maness, T. J., Saunders, S. P., Taylor, C. M., Valentine, K. L., Zenzal Jr, T. J. 2025. Effectiveness of stewardship and management strategies to conserve coastal bird populations in the northern Gulf of Mexico: a literature review. *Journal of Field Ornithology* 96(1): 7. Doi: <https://doi.org/10.5751/JFO-00612-960107>
31. Ottinger, M. A., **Grace, J. K.**, Maness, T. J. 2024. Global challenge in aging: insights from comparative biology and One Health. *Frontiers in Toxicology* 6: 1381178. Doi: 10.3389/ftox.2024.1381178
30. Martinez, V.*, Duran, E. M. I.*, Kimmitt, A. A.*, Russell, K. E., Heatley, J. J., **Grace, J. K.** 2024. Chronic stress increases adaptive immune response over six weeks in the house sparrow, *Passer domesticus*. *General and Comparative Endocrinology* 358: 114612. Doi: 10.1016/j.ygcen.2024.114612
29. **Grace, J. K.**, Duran, E.*, Ottinger, M. A., Maness, T. 2024. Sublethal effects of early-life exposure to common and emerging contaminants in birds. *Current Research in Toxicology* 7: 100190. Doi: 10.1016/j.crtox.2024.100190
28. McCloy, M.*, Andringa, R. K.*, Maness, T., Smith, J., **Grace, J. K.** 2024. Promoting urban ecological resilience through the lens of avian biodiversity. *Frontiers in Ecology and Evolution* 12: 1302002. Doi: 10.3389/fevo.2024.1302002
27. Martinez, V.*, Keith, K. D.*, **Grace, J. K.**, Voelker, G. 2023. Avian haemosporidians of breeding birds in the Davis Mountains sky-islands of west Texas, USA. *Parasitology* 2023:1-11. Doi:10.1017/S0031182023001087
26. Crooks, G. C.*, **Grace, J. K.**, Guo, J., Blue-McLendon, A., Heatley, J. J. 2023. Validation of an enzyme-linked immunosorbent assay and establishment of a reference interval for androstenedione in Texas tortoises (*Gopherus berlandieri*). *The Journal of Herpetological Medicine and Surgery* 33(3): 1-7. Doi: 10.5818/JHMS-D-22-00017
25. Maness, T. J., **Grace, J. K.**, Hirchak, M. R., Tompkins, E. M., Anderson, D. J. 2023. Circulating corticosterone predicts near-term, while H/L ratio predicts long-term, survival in a long-lived seabird. *Frontiers in Ecology and Evolution* 11: 1172904. Doi: 10.3389/fevo.2023.1172904
24. McCloy, M. W.*, Glascock, S., **Grace, J. K.** 2023. Local weather affects body condition of three North American songbird species on the Texas Coast. *Ecology and Evolution* 13(7): e10317. Doi: 10.1002/ece3.10317
23. McCloy, M. W.*, & **Grace, J. K.** 2023. Short-term weather patterns influence avian body condition during the breeding season. *Frontiers in Ecology and Evolution* 11: 1154656. Doi: 10.3389/fevo.2023.1154656

22. McCloy, M. D.*, Andringa, R. K.*, **Grace, J. K.** 2022. Resilience of avian communities to urbanization and climate change: An integrative review. *Frontiers in Conservation Science* 3: 918873. Doi: 10.3389/fcosc.2022.91887326.
21. **Grace, J. K.**, Duran, E.*, Ottinger, M. A., Woodrey, M., Maness, T. J. 2022. Microplastics in the Gulf of Mexico: A Bird's Eye View. *Sustainability* 14(13): 7849. Doi: 10.3390/su14137849
20. Andringa, R. K.*, Guggenheimer, A.*, **Grace, J. K.** 2022. Daily weather affects body condition, sex, and age ratios of harvested dabbling ducks in Texas. *Journal of the Southeastern Association of Fish and Wildlife Agencies* 9: 114-122.
19. Guggenheimer, A.*, **Grace, J. K.** 2022. Duck non-breeding body condition differs by sex, age, and year. *Journal of the Southeastern Association of Fish and Wildlife Agencies* 9; 123-133.
18. Hardin, F.*, Leivers, S., **Grace, J. K.**, Hancock, Z., Campbell, T., Pierce, B., Morrison, M. L. 2021. Secondhand homes: The multilayered influence of woodpeckers as ecosystem engineers. *Ecology and Evolution* 11(16): 11425-11439. Doi: 10.1002/ece3.7932
17. Marasco, V., Dupont, S., **Grace, J. K.**, Angelier, F. 2021. No trans-generational maternal effects of early-life corticosterone exposure on neophobia and antipredator behaviour in the house sparrow. *Journal of Ethology* 39(3), 429-437. Doi: 10.1007/s10164-021-00712-3
16. **Grace, J. K.**, Parenteau, C., Angelier, F. 2020. Post-natal corticosterone exposure downregulates the HPA axis through adulthood in a common passerine. *General and Comparative Endocrinology* 292: 113421. Doi: 10.1016/j.ygcen.2020.113421
15. Dupont, S. M., **Grace, J. K.**, Lourdais, O., Brischoux, F., Angelier, F. 2019. Slowing down the metabolic engine: impact of early-life corticosterone exposure on adult metabolism in house sparrows (*Passer domesticus*). *Journal of Experimental Biology* 222(22): jeb211771. Doi:10.1242/jeb.211771
14. **Grace, J. K.**, Parenteau, C., Angelier, F. 2019. Post-natal glucocorticoid elevation affects GnRH-induced luteinizing hormone concentration in female house sparrows. *General and Comparative Endocrinology* 283: 113238. Doi: 10.1016/j.ygcen.2019.113238
13. Dupont, S. M., **Grace, J. K.**, Brischoux, F., Angelier, F. 2019. Post-natal corticosterone exposure affects ornaments in adult male house sparrows (*Passer domesticus*). *General and Comparative Endocrinology* 276: 45-51. Doi: 10.1016/j.ygcen.2019.02.021
12. **Grace, J. K.**, Anderson, D. J. 2018. Early-life maltreatment predicts adult stress response in a long lived bird. *Biology Letters* 14: 20170679. Doi: 10.1098/rsbl.2017.0679
11. **Grace, J.K.**, Froud, L.*, Meillère, A., Angelier, F. 2017. House sparrows mitigate growth effects of post-natal glucocorticoid exposure at the expense of longevity. *General and Comparative Endocrinology* 253:1-12. Doi: 10.1016/j.ygcen.2017.08.011
10. **Grace, J. K.**, Martin-Gousset, L.*, Angelier, F. 2017. Delayed effect of early-life corticosterone treatment on adult anti-predator behavior in a common passerine. *Physiology and Behavior* 177:82-90. Doi: 10.1016/j.physbeh.2017.04.018
9. Angelier, F., Meillère, A., **Grace, J. K.**, Trouvé, C., Brischoux, F. 2016. No evidence for an effect of traffic noise on the development of the corticosterone stress response in an urban exploiter. *General and Comparative Endocrinology* 232: 43-50. Doi:10.1016/j.ygcen.2015.12.007
8. Liang, A.*, **Grace, J. K.**, Tompkins, E. M., Anderson, D. J. 2015. Yawning, acute stressors, and arousal reduction in Nazca booby adults and nestlings. *Physiology and Behavior* 140: 38-43. Doi:10.1016/j.physbeh.2014.11.029
7. **Grace, J. K.**, Anderson, D. J. 2014. Corticosterone stress response shows long-term repeatability and predicts personality in free-living Nazca boobies. *General and Comparative Endocrinology* 208: 39-48. Doi: 10.1016/j.ygcen.2014.08.020
6. **Grace, J. K.**, Anderson, D. J. 2014. Personality correlates with contextual plasticity in a free-living, long-lived seabird. *Behaviour* 151(9): 1281-1311. Doi: 10.1163/1568539X-00003185
5. **Grace, J. K.**, Tompkins, E. M., Anderson, D. J. 2013. Leucistic adult large cactus-finch (*Geospiza conirostris*) on Española Island, Galápagos: a potential continuation of nestling beak color. *Wilson Journal of Ornithology* 125(1): 201-204. Doi: 10.1676/12-093.1
4. **Grace, J. K.**, K. Dean, M. A. Ottinger, D. J. Anderson. 2011. Hormonal effects of maltreatment in Nazca booby nestlings: implications for the "cycle of violence." *Hormones and Behavior* 60(1):78-85. Doi: 10.1016/j.yhbeh.2011.03.007
3. Müller, M.S., Porter, E.T., **Grace, J.K.**, Awkerman, J.A., Birchler, K.T., Gunderson, A.T., Schneider, E.G.,

- Westbrock, M.A., Anderson, D.J. 2011. Maltreated nestlings exhibit correlated maltreatment as adults: evidence of a “cycle of violence” in Nazca boobies (*Sula granti*). *Auk* 128(4): 615. Doi: 10.1525/auk.2011.11008.
2. **Grace, J. K.**, and D. P. Craig. 2008. The development and lateralization of prey delivery in a bill load holding bird. *Animal Behaviour*, 75: 2005-2011, doi:10.1016/j.anbehav.2007.11.009.
1. Anderson, D. J., K. P. Huyvaert, J. A. Awkerman, C. B. Proaño, W. B. Milstead, G. Jiménez-Uzcátegui, S. Cruz, **J. K. Grace**. 2008. Population Status of the Critically Endangered Waved Albatross (*Phoebastria irrorata*), 1999 to 2007. *Endangered Species Research* 5: 185-192. Doi: 10.3354/esr00089.

Book chapters

4. Ottinger, M.A., Coverdale, B., Mani, S., Maness, T., **Grace, J.**, Krüger, S. (2026). Wild Bird Reproduction: Neuroendocrinology, Conservation Biology, and Environmental Threats. In: Comizzoli, P., Brown, J., Holt, W.V. (eds) Reproductive Sciences in Animal Conservation. Advances in Experimental Medicine and Biology, vol 16. Springer, Cham. https://doi.org/10.1007/978-3-031-87707-0_14
3. Hardin, F. O.*, Beckman, A. K.*, Earl, A. D.*, **Grace, J. K.** (2021). Optimizing and competing for resources. In D. S. Proppe (Ed.), *Songbird Behavior and Conservation in the Anthropocene*. Boca Raton, Florida: CRC Press. Doi: 10.1201/9780429299568
2. **Grace, J. K.**, Anderson, D. J., Carboneras, C., Christie, D. A., Jutglar, F., Garcia, E. Kirwan, G. M. (2020). Masked Booby (*Sula dactylatra*), version 1.0. In S. M. Billerman (Ed.), *Birds of the World*. Ithaca, NY, USA: Cornell Lab of Ornithology. Doi: <https://doi.org/10.2173/bow.masboo.01>.
1. Ottinger, M. A., Maness, T., **Grace, J. K.**, Wilson, R. R., Jodice, P. G. R. (2019). Avian Health. In: R. R. Wilson, A. M. V. Fournier, J. S. Gleason, J. E. Lyons, M. S. Woodrey (Eds.). *Strategic Bird Monitoring Guidelines for the Northern Gulf of Mexico*. Mississippi Agricultural and Forestry Experiment Station Research Bulletin 1228, Mississippi State University, Mississippi State, MS. USA. pp. 275-295.

Editor-reviewed articles

4. Grunst, M. L., Grunst, A. S., Fort, J., **Grace, J. K.** 2025. Bioenergetic and behavioral effects of rapid anthropogenic change and eco-evolutionary implications. *Frontiers in Bird Science* 4: 1654140. Doi: 10.3389/fbirs.2025.1654140
3. **Grace, J. K.**, Ottinger, M. A., Maness, T. J. 2024. Applications of conservation physiology to wildlife fitness and population health. *Frontiers in Ecology and Evolution* 12: 1423799. Doi: 10.3389/fevo.2024.1423799
2. Andringa, R. K.*, McCloy, M. W. D.*, **Grace, J. K.** 2020. Breeding status of the Swainson’s Warblers (*Limnithlypis Swainsonii*) in the Brazos River Valley. *Bulletin of the Texas Ornithological Society* 52(1-2): 9-15.
1. Ottinger, M. A., **Grace, J. K.**, Maness, T., Dean, K. 2019. Avian Sentinels of "One Health" for the Gulf of Mexico. In L. McKinney, M. Besonen, K. Withers (Eds.), *Proceedings: The Gulf of Mexico Workshop on International Research* (pp. 152-160). New Orleans, LA: U.S. Department of the Interior, Bureau of Ocean Energy Management, Gulf of Mexico OCS Region.

E-books

1. Maness, T. J., Ottinger, M. A., **Grace, J. K.**, eds. (2024). Applications of conservation physiology to wildlife fitness and population health. Lausanne: Frontiers Media SA. doi: 10.3389/978-2-8325-4947-6

DATA SETS

6. Kimmitt, A. A. *, Angelier, F., **Grace, J. K.** 18 Feb 2025. Data for “Postnatal glucocorticoid exposure causes long-lasting effects on competitive but not neophobic behaviors in a common songbird.” <https://data.mendeley.com/datasets/hn8ksv7h8h/1>. DOI: 10.17632/hn8ksv7h8h.1
5. Martinez, V., **Grace, J. K.**, Poole, R. 5 Apr 2023. Feather and serum corticosterone of birds sampled in west Texas. <https://hdl.handle.net/1969.1/197530>.
4. Maness, T. J., **Grace, J. K.**, Hirchak, M. R., Tompkins, E. M., Anderson, D. J. 2023. Data for “Circulating corticosterone predicts near-term, while H/L ratio predicts long-term, survival in a long-lived seabird”. <http://hdl.handle.net/10339/102187>. DOI: 10.3389/fevo.2023.1172904
3. **Grace, J. K.**, Parenteau, C., Angelier, F. 23 Feb 2020. Data for “Post-natal corticosterone exposure downregulates

the HPA axis through adulthood in a common passerine.” <https://data.mendeley.com/datasets/2rmgsxj8zk/1>. DOI: 10.17632/2rmgsxj8zk.1

2. **Grace, J. K.**, Anderson, D.J. 05 Dec 2017. Data for “Early-life maltreatment predicts adult stress response in a long lived wild bird” (Biology Letters). <http://hdl.handle.net/1969.1/165171>
1. **Grace, J.K.**, Meillère, A., Angelier, F., Froud, L.*, 01 Sept 2017. Data for: House sparrows mitigate growth effects of post-natal glucocorticoid exposure at the expense of longevity. DOI: 10.17632/7s2jm5s42t.1

PROFESSIONAL PRESENTATIONS (* indicates student/postdoc, ** indicates graduate committee chair)

Invited Research Presentations & Seminars

28. Maness, T. J., R. K. Andringa and **J. K. Grace**. July 2025. “Ecotoxicology in Wild Birds.” The Association of Field Ornithologists Annual Meeting. Symposium oral presentation. Ogden, UT.
27. Maness, T. J., V. Alder, M. Henderson, and **J. K. Grace**. July 2025. “Per- and poly-fluoroalkyl substances in dabbling and diving ducks.” The Association of Field Ornithologists Annual Meeting. Symposium oral presentation. Ogden, UT.
26. **Grace, J. K.**, E. Duran**, M. A. Ottinger, T. J. Maness. July 2025. “Sublethal effects of early-life exposure to common and emerging contaminants in birds.” Association of Field Ornithologists Annual Meeting. Symposium oral presentation. Ogden, UT. (Presented by T. Maness)
25. **Grace, J. K.**, R. K. Andringa**, T. Maness. Feb. 2025. “Introduction to microplastics and impacts on wild birth health.” Houston-Galveston Area Council Clean Waters Initiative: Microplastics in Surface Waters Workshop. Invited oral presentation. Houston, TX.
24. **Grace, J. K.**, F. A. Angelier, E. M. I. Duran **. Feb. 2025. “Avian responses to stress in a dynamic world.” Willamette University Biology Colloquium Seminar Series. Seminar presentation. Salem, OR.
23. Groch, K. R.* , E. M. I. Duran**, **J. K. Grace**, J. Díaz-Delgado, M. Martins, L. K. Bryan. Nov. 2024. “Novel aviadenovirus detected during a mortality outbreak of black skimmers, Texas, USA.” American College of Veterinary Pathologists and American Society for Veterinary Clinical Pathology Annual Meeting. Invited oral presentation. Seattle, WA.
22. Groch, K. R.* , L. Bryan, D. Clontz, R. R. Rech, T. L. Sanders, G. G. Verocai, E. M. I. Duran**, **J. K. Grace**. Oct. 2024. “A piece of the skimmer's mortality puzzle.” Davis-Thompson Foundation South-Central Division 2024 Annual Meeting. Invited oral presentation. Galveston, TX.
21. Maness, T. J., **Grace, J. K.**, Hirchak*, M. R., Tompkins, E. M., Anderson, D. J. Feb 2024. “Predictors of short- and long-term survival in a long-lived seabird.” Gulf of Mexico Conference. Symposium oral presentation. Tampa, FL.
20. **Grace, J. K.**, Ottinger, M. A., Maness, T. J., Wilson, R., Jodice, P. Feb 2024. “Gulf of Mexico Avian Monitoring Network Strategic Bird Monitoring Guidelines: Avian Health Metrics.” Gulf of Mexico Conference. Symposium oral presentation. Tampa, FL.
19. **Grace, J. K.**, Andringa, R. K.* , Maness, T. Feb 2024. “Evaluation of Microplastics and Ecotoxins in Gulf of Mexico Waterfowl.” Gulf of Mexico Conference. Symposium oral presentation. Tampa, FL.
18. Gleason, J. S., Adams, E. M., Maness, T., Fournier, A. M. V., Barron, T., Brush, J. M., Chimahusky, M., Cox, A., Driscoll, M. J. L., Dobbs, R., **Grace, J.**, Green, C., Havens, H., Kalasz, K., Koczur, L., Lancaster, J., Ottinger, M. A., Schulz, J., Soehren, E., Stantial, M., Vermillion, W. G., William, K., Wilson, R. R., Woodrey, M. S., Zenzal, T. J. Jr. Oct. 2023. “The Gulf of Mexico Avian Monitoring Network (GoMAMN): a brief history of a value-driven bird monitoring community of practice in the wake of the Deepwater Horizon oil spill.” The Waterbird Society Meeting. Symposium oral presentation. Fort Lauderdale, FL.
17. Maness, T. J., Hirchak, M.* , **Grace, J. K.**, Anderson, D. J. July 2022. “Heterophil:Lymphocyte ratios, Glucocorticoids, and Stress in Birds”. International Symposium on Avian Endocrinology. Symposium oral presentation. Edinburgh, UK.
16. **Grace, J. K.**, Anderson, D. J., Angelier, F. July 2022. “Long-term Effects of Early-life Stressors on the HPA Axis in a Short- and Long-lived Bird”. International Symposium on Avian Endocrinology. Symposium oral presentation. Edinburgh, UK.
15. McCloy, M.* , **Grace, J. K.** Oct. 2021. Hurricanes, weather, and climate: resilience in Gulf Coast songbirds. Welder Wildlife Foundation Fellows Symposium. Symposium oral presentation. Sinton, TX.
14. **Grace, J. K.** Biology Department, Pfeiffer University. April 2021. “Early-life stress in birds: from sparrows to boobies.” Seminar presentation. Virtual.

13. **Grace, J. K.** May 2021. “The modern canary in a coal mine: birds as indicators of ecological health in the 21st century”. Birding the Border, Texas A&M AgriLife Extension. Seminar presentation. Del Rio, TX.
12. Angelier, F., **Grace, J. K.**, Dupont, S., Beaugeard, E., Meillère, A., Brischoux, F. May 2021. “Are corticosterone levels a proxy of environmental constraints in a declining urban exploiter, the House Sparrow.” North American Society for Comparative Endocrinology Biennial Meeting. Symposium presentation. Virtual.
11. **Grace, J. K.**, Angelier, F., Anderson, D. J. Biology Department Seminar Series, Trinity University. Feb. 2020. “Long-term effects of early-life stress in birds: from seabirds to passerines.” Seminar presentation. San Antonio, TX.
10. **Grace, J. K.** Jan 2020. “How birds deal with stress – Highlights from studies in Texas and beyond.” Annual Meeting of the Texas Ornithological Society. Keynote presentation. College Station, TX.
9. **Grace, J. K.**, Angelier, F., Anderson, D. J. Jan 2019. “Long-term effects of early-life stress on the HPA axis on a short- and long-lived bird.” Complimentary session to symposium, Society for Integrative and Comparative Biology Annual Meeting. Symposium oral presentation. Tampa, FL.
8. **Grace, J. K.** Nov. 2018. “Long-term effects of stress in wild birds.” Schubot Avian Health Center Seminar Series, TAMU. Seminar presentation. College Station, TX.
7. **Grace, J. K.** Oct. 2017 “Stress, Death and the ‘Silver Spoon’: Long-term effects of post-natal glucocorticoid exposure in a wild bird.” Interdisciplinary Faculty of Reproductive Biology, TAMU. Seminar presentation. College Station, TX.
6. **Grace, J. K.** Feb. 2017. “Long-term effects of stress: from boobies to sparrows.” Zoological Society, TAMU. Seminar presentation. College Station, TX.
5. **Grace, J. K.**, Angelier, F. Oct. 2016. “Stress, death, and the “silver spoon”: effects of early-life stress on lifetime morphology, mortality, and behavior in a wild bird.” Biology Department, Louisiana Tech University. Seminar presentation. Ruston, LA.
4. **Grace, J. K.**, Anderson, D. J. Feb. 2015. “Endocrine-mediated organizational effects on personality and stress in the Nazca booby.” Ecology Seminar Series, Centre d’Etudes Biologique de Chizé, Centre National de la Recherche Scientifique. Seminar presentation. Viellers-en-Bois, Poitou-Charentes, France.
3. **Grace, J. K.**, Anderson, D. J. April 2014. “Endocrine-mediated organizational effects on personality and stress in the Nazca booby.” Biology Department Seminar Series, Wake Forest University. Seminar presentation. Winston-Salem, NC.
2. **Grace, J. K.**, Anderson, D. J. Jan. 2010. “Personality and stress in the Nazca Booby.” Darwin Research Station Seminar Series. Seminar presentation. Santa Cruz, Galápagos, Ecuador.
1. **Grace, J. K.**, Anderson, D. J. Jan. 2010. “Long-term effects of the ‘cycle of violence’ in a seabird.” Ecology, Evolution, and Conservation Biology Program, University of Hawaii at Manoa. Seminar presentation. Manoa, Oahu, HI.

Contributed Research Presentations

37. Maness, T. J., V. Alder, M. Henderson, and **J. K. Grace**. Oct. 2025. “Per- and Poly-Fluoroalkyl Substances in Dabbling and Diving Ducks.” Southeastern Association of Fish and Wildlife Agencies Annual Conference. Oral presentation. Biloxi, MS
36. **Grace, J. K.**, R. K. Andringa**, G. Brakefield, T. Maness. Oct. 2025. “Microplastic Ingestion by Northern Gulf of Mexico Waterfowl.” Southeastern Association of Fish and Wildlife Agencies Annual Conference. Oral presentation. Biloxi, MS.
35. Alder, V., M. Henderson, **J. K. Grace**, and T. J. Maness. April 2025. “Per- and Poly-Fluoroalkyl Substances in Dabbling and Diving Duck Tissues.” Applied and Natural Sciences Research Symposium. Poster presentation. Ruston, LA
34. Alder, V., M. Henderson, **J. K. Grace**, and T. J. Maness. March 2025. “Per- and Poly-Fluoroalkyl Substances in Dabbling and Diving Duck Tissues.” Louisiana Tech Undergraduate Research and Service-Learning Symposium. Oral presentation. Ruston, LA
33. **Grace, J. K.**, Andringa R. K.*, Brakefield, G., Maness, T.J. Oct. 2024. “Microplastics in Northern Gulf of Mexico Waterfowl.” Society of Environmental Toxicology and Chemistry 45th Annual Meeting. Poster. Fort Worth, TX.
32. Maness, T. J., **Grace, J. K.**, Hirchak, M. R.*, Tompkins, E. M., Anderson, D. J. July 2024. “Predictors of

- short- and long-term survival in a long-lived seabird.” Joint Meeting of the Association of Field Ornithologists, the Society of Canadian Ornithologists, and the Wilson Ornithological Society. Peoria, IL. Oral presentation.
31. Fournier, A., Adams, E. M., Barron, T., Brush, J. M., Chimahusky, M., Cox, A., Driscoll, M. J. L., Dobbs, R., Gleason, J. S., **Grace, J.**, Green, C., Havens, H., Kalasz, K., Koczur, L., Lancaster, J., Maness, T., Ottinger, M. A., Schulz, J., Soehren, E., Stantial, M., Vermillion, W. G., Williams, K., Wilson, R. R., Woodrey, M. S., Zenzal, T. J. Jr. April 2022. “The Gulf of Mexico Avian Monitoring Network (GoMAMN): A forum for connection and collaboration focused on values driven priorities for bird monitoring”. Gulf of Mexico Conference. Oral presentation
 30. Fournier, A., Adams, E. M., Barron, T., Brush, J. M., Chimahusky, M., Cox, A., Driscoll, M. J. L., Dobbs, R., Gleason, J. S., **Grace, J.**, Green, C., Havens, H., Jodice, P. G. R., Kalasz, K., Koczur, L., Lancaster, J., Lyons, J. E., Maness, T., Ottinger, M. A., Schulz, J., Sharuga, S., Soehren, E., Stantial, M., Vermillion, W. G., Williams, K., Wilson, R. R., Woodrey, M. S., Zenzal, T. J. Jr. March 2022. “The Gulf of Mexico Avian Monitoring Network (GoMAMN): a strategic plan for monitoring birds in the Gulf of Mexico and translating stakeholder values into priorities.” Ocean Sciences. Virtual poster.
 29. Hirchak, M.*, **Grace, J. K.**, Anderson, D. J., Maness, T. J. April 2022. “Take Them to CORT: The Case of Circulating Glucocorticoid Levels and Heterophil to Lymphocyte Ratios in *Sula granti*” Applied and Natural Sciences Research Symposium. Oral presentation. Rustin, LA.
 28. Kimmit, A.*, Angelier, F., **Grace, J. K.** July 2021. “The effect of early-life stress on juvenile and adulthood boldness and dominance behaviors.” Annual Meeting of the Animal Behavior Society. Oral presentation.
 27. Ottinger, M., Maness, T., **Grace, J.** Nov. 2020. “Gulf of Mexico Avian Monitoring Network Strategic Bird Monitoring Guidelines: Avian Health Metrics.” Society for Environmental Toxicology and Chemistry Annual Meeting. Oral presentation.
 26. **Grace, J. K.**, Martin-Gousset, L.*, Angelier, F. Jan 2020. “Post-natal glucocorticoids negatively affect adult anti-predator behavior in House Sparrows.” Society for Integrative and Comparative Biology Annual Meeting. Austin, TX. Oral presentation.
 25. **Grace, J. K.**, Angelier, F., Anderson, D. June 2019. “Long-term effects of early-life stress on the HPA axis in a short- and long-lived bird.” Meeting of the American Ornithological Society. Anchorage, AK. Oral presentation.
 24. **Grace, J. K.**, Angelier, F. April 2019. Stress, Death, and the “Silver Spoon”: Effects of early-life stress on growth and immunity across life stages in a wild bird.” Texas Forum for Reproductive Sciences. College Station, TX. Oral presentation.
 23. **Grace, J. K.**, Angelier, F. Aug. 2018. “Long-term costs of post-natal glucocorticoid exposure: Evidence of trade-offs between growth, antipredator behavior, and survival in the house sparrow.” Ecological Society of America Annual Meeting. New Orleans, LA. Oral presentation.
 22. **Grace, J. K.**, Angelier, F. Jan. 2018. “Stress, Death, and the “Silver Spoon”: Effects of early-life stress on growth and immunity across life stages in a wild bird.” Society for Integrative and Comparative Biology Annual Meeting. San Francisco, CA. Oral presentation.
 21. Angelier, F., **Grace, J. K.**, Meillère, A., Dupont, S., Beaugeard, E., Henry, P-Y., Brischoux, F. Nov. 2017. 3rd Colloque d'Ecophysiologie Animale, Strasbourg, France. Oral presentation.
 20. **Grace, J. K.** Jan. 2017. “Stress, behavior, and life history: from boobies to sparrows.” TAMU Marine Biology Interdisciplinary Degree Program Annual Retreat. Galveston, TX. Oral presentation.
 19. **Grace, J. K.**, Angelier, F. Jan. 2017. “Stress, Death, and the “Silver Spoon”: Effects of early-life stress on growth and immunity across life stages in a wild bird.” Society for Integrative and Comparative Biology Annual Meeting. New Orleans, LA. Oral presentation.
 18. **Grace, J. K.**, Angelier, F. Aug. 2016. 16th Congress of the International Society for Behavioral Ecology. Exeter, UK. Oral presentation.
 17. **Grace, J. K.**, Angelier, F. Nov. 2015. Colloque de Ecophysiologie Animale. La Rochelle, France. Oral presentation.
 16. **Grace, J. K.**, Anderson, D. J. Jan. 2014. Society for Integrative and Comparative Biology Annual Meeting. Austin, TX. Oral presentation.
 15. **Grace, J. K.**, Anderson, D. J. Aug. 2013. Joint meeting of American Ornithologists’ Union and Cooper Ornithological Society. Chicago, IL. Oral presentation.

14. **Grace, J. K.**, Anderson, D. J. Jan. 2013. Society for Integrative and Comparative Biology Annual Meeting. San Francisco, CA. Oral presentation.
13. **Grace, J. K.**, Dean, K., Ottinger, M. A., Anderson, D. J. Feb. 2012. Annual Meeting of the Pacific Seabird Group. Turtle Bay, HI. Oral presentation.
12. **Grace, J. K.**, Dean, K., Ottinger, M. A., Anderson, D. J. Dec. 2011. 27th Perspectives in Biology Symposium. Wake Forest University. Poster.
11. **Grace, J. K.**, Dean, K., Ottinger, M. A., Anderson, D. J. Jul. 2011. Joint Meeting of the Animal Behavior Society and the International Ethological Conference. Indiana University, Bloomington, IN. Poster.
10. **Grace, J. K.**, Dean, K., Ottinger, M. A., Anderson, D. J. Dec. 2010. 26th Perspectives in Biology Symposium. Wake Forest University. Poster.
9. **Grace, J. K.**, Anderson, D.J. Dec. 2008. 24th Perspectives in Biology Symposium. Wake Forest University. Poster.
8. **Grace, J. K.**, Craig, D.P. Aug. 2006. IV North American Ornithological Conference. Veracruz, Mexico. Oral presentation.
7. **Grace, J. K.**, Craig, D.P. Jul. 2006. 11th International Behavioral Ecology Congress. Tours, France. Poster.
6. **Grace, J. K.**, Craig, D.P. Nov. 2006. 15th M.J. Murdock Conference. Portland, OR. Oral presentation.
5. **Grace, J. K.**, Swenson, P., Craig, D. P. Sept. 2005. 15th Annual Student Collaborative Research Program Research Symposium. Willamette University. Oral presentation.
4. **Grace, J. K.**, Swenson, P., Craig, D. P. Nov. 2005. 14th Regional Conference on Undergraduate Research of the Murdock College Science Research Program. Northwest Nazarene University. Poster.
3. Allen, J., Craig, D. P., **Grace, J. K.** Dec. 2008. 35th Annual Meeting of the Pacific Seabird Group. Oral presentation.
2. Craig, D. P., Shinn, J., Swenson, P., **Grace, J. K.** Dec. 2008. 35th Annual Meeting of the Pacific Seabird Group. Oral presentation.
1. Swenson, P., **Grace, J. K.**, Craig, D. P. Sept. 2005. 15th Annual Student Collaborative Research Program Research Symposium. Willamette University. Oral presentation.

Pedagogical presentations

1. Grace, J. K. Oct. 2025. "Expanding horizons: Career-focused learning in conservation biology." Montague-Center for Teaching Excellence Scholar Luncheon. Texas A&M University. Poster presentation.

Student presentations

29. Andringa, R.K.***, Prestridge, H.L., Voelker, G., and **Grace, J.K.** Jan. 2026. "Museum Specimens as a Pipeline to Investigate Trait-Driven Patterns of Microplastic Ingestion Across Bird Communities." Texas Conservation Symposium. Georgetown, TX. Invited oral presentation.
28. Andringa, R. K.***, **Grace, J.K.** July 2025. "Birds as Bioindicators: a conceptual framework for ecotoxicology". Association of Field Ornithologists Annual Meeting. Ogden, UT. Symposium oral presentation.
27. **Grace, J.K.**, Andringa R.K.***, Brakefield, G., Maness, T.J. July 2025. "Microplastics in Northern Gulf of Mexico Waterfowl". Association of Field Ornithologists Annual Meeting. Ogden, UT. Poster presentation. (Presented by R. K. Andringa).
26. Duran, E. M. I.**, Heath, S. A., Bracken, R., Clontz, D., Heatley, J. J., Groch, K., Bryan, L., Rogovskyy, A., **Grace, J. K.** Mar. 2025. "Results of a black skimmer (*Rynchops niger*) chick mortality event investigation." Seven Mountains Audubon Educational Meeting. Lewisburg, PA. Seminar.
25. Andringa, R. K.**, Bruni, N. A., Smith, J. A., Prestridge, H. L., Thornton, R., **Grace, J. K.** October 2024. "Gastric lavage is an imprecise method for sampling microplastics in a wild passerine bird." Society of Environmental Toxicology and Chemistry 45th Annual Meeting. Fort Worth, TX. Oral presentation.
24. Andringa, R. K.**, **Grace, J. K.** Aug. 2024. "Microplastic Burdens and Community Exposure Trends in Salvaged Carcasses of Texas Birds." Lights Out, Texas! Symposium. Texas A&M University, College Station, Texas. Invited Talk.
23. Andringa, R. K.**, Smith, J., **Grace, J. K.** July 2023. "In-field Efficacy of Non-lethal Gastric Lavage to Recover Ingested Microplastics from Passerines." Ornithological Congress of the Americas. Poster presentation.

22. Duran, E. M. I.**, Heath, S. A., Clontz, D., Heatley, J. J., Rogovskyy, A., **Grace, J. K.** January 2023. “An investigation into a novel health condition of an iconic shorebird: Implications for the understanding of emerging zoonotic diseases, coastal bird species management, and conservation.” Annual Meeting of the Society for Integrative and Comparative Biology. Poster Presentation.
21. Duran, E. M. I.**, **Grace, J. K.**, Ottinger, M. A., Woodrey, M. S., Maness, T. J. November 2022. “Microplastics in the Gulf of Mexico: A Bird's Eye View.” Annual Meeting of the Society for Environmental Toxicology and Chemistry. Poster Presentation.
20. Duran, E. M. I.**, Heath, S. A., Clontz, D., Heatley, J. J., Rogovskyy, A., **Grace, J. K.** October 2022. “An investigation into a novel health condition of an iconic shorebird: Implications for the understanding of emerging zoonotic diseases, coastal bird species management, and conservation.” Annual Meeting of the Waterbird Society. Oral Presentation.
19. McCloy, M.W.D.**, **Grace, J. K.** August 2022. “Diversity dynamics of an avian community in coastal Texas.” Ecological Society of America Annual Meeting. Montreal, Quebec, Canada. Poster presentation.
18. Andringa, R. K.**, **Grace, J. K.** February 2022. “Almost no effects on body condition of purple martins along an anthropogenic gradient in central Texas.” The Annual Meeting of the Texas Chapter of the Wildlife Society. Marble Falls, TX. Oral presentation.
17. McCloy, M.W.D.**, **Grace, J. K.** February 2022. “Short-term weather affects Passerine body condition.” Texas Chapter of The Wildlife Society Annual Meeting, Marble Falls, Texas, USA. Oral presentation.
16. Ortega, M.*, **Grace, J. K.** April 2021. “The effects of pishing and playback on avian fitness.” Texas A&M University Undergraduate Research Scholars Symposium. Oral presentation.
15. Guggenheimer, A.**, **Grace, J. K.** Oct. 2021. “Duck non-breeding body condition differs by sex, age, and year.” Annual Conference of the Southeastern Association of Fish and Wildlife Agencies. Virtual meeting. Oral presentation.
14. Andringa, R. K.**, Guggenheimer, A.**, **Grace, J. K.** Oct. 2021. “Daily weather affects body condition, sex, and age ratios of harvested dabbling ducks in Texas.” Annual Conference of the Southeastern Association of Fish and Wildlife Agencies. Virtual meeting. Oral presentation.
13. McCloy, M.**, Glasscock, S., **Grace, J. K.** Aug. 2020. “Short-term weather affects Passerine body condition.” Ecological Society of America Annual Meeting. Virtual meeting. Poster.
12. McCloy, M.**, Glasscock, S., **Grace, J. K.** Aug. 2020. “Short-term weather affects Passerine body condition.” North American Ornithological Congress. Virtual meeting. Poster.
11. Ortega, M.*, **Grace, J. K.** Aug. 2020. “The effects of pishing and playback on avian fitness.” North American Ornithological Congress. Virtual meeting. Poster.
10. Martinez, V.**, **Grace, J. K.** Aug. 2020. “Living on edge: Interactions between stress hormones and blood parasites in birds along elevation gradients”. North American Ornithological Congress. Virtual meeting. Poster.
9. Martinez, V.**, **Grace, J. K.** Jan 2020. “Living on edge: Interactions between stress hormones and blood parasites in birds along elevation gradients”. Society for Integrative and Comparative Biology Annual Meeting. Austin, TX. Poster
8. Andringa, R. K. **, M. McCloy**, **J. K. Grace.** November 2019. Meeting of the Rio Brazos Audubon Society. Bryan, TX. Invited Talk.
7. Ortega, M.*, **Grace, J. K.** 2019. “The effects of pishing and playback on avian fitness”. Schubot Avian Health Center. College Station, TX. Invited talk.
6. Martinez, V.**, **Grace, J. K.** June 2019. “Living on edge: Interactions between stress hormones and blood parasites in birds along elevation gradients”. Meeting of the American Ornithological Society. Anchorage, AK. Poster.
5. McCloy, M. W. D.**, **Grace, J. K.**, Glasscock, S. June 2019. “Implementing ARU's as a tool to quantify avian diversity”. Meeting of the American Ornithological Society. Anchorage, AK. Poster.
4. Guggenheimer, A.**, **Grace, J. K.** Jun. 2019. „Correlating Body Condition and Habitat Management of Wintering Duck Populations in Texas Wetlands.” American Ornithological Society Conference, Anchorage, AK. Poster.
3. Guggenheimer, A.**, **Grace, J. K.** March 2019. “Correlating Body Condition and Habitat Management of Wintering Duck Populations in Texas Wetlands”. Ecological Integration Symposium, College Station, TX. Poster.

2. Guggenheimer, A.**, and **Grace, J. K.** Feb 2019. “Correlating Body Condition and Habitat Management of Wintering Duck Populations in Texas Wetlands”. Texas Chapter of the Wildlife Society. Montgomery, TX. Poster.
1. Crooks, G.*, **J. K. Grace**, J. Guo, J. Heatley. 2017. “Validation of an enzyme-linked immunosorbent assay and establishment of a reference interval for androstenedione in Texas tortoises (*Gopherus berlandieri*).” National Institutes of Health. Poster.

GUEST LECTURES

Guest lectures at Texas A&M

Fundamentals of Ecology, “Behavioral Ecology,” Spring 2023.

Animal Behavior, “Stress and the cycle of violence: from boobies to sparrows,” Spring 2017.

Marine Biology IDP Graduate Seminar, “Long-term effects of stress in birds,” Spring 2017.

Other university guest lectures

Ornithology. “Reflections on early career research and Caspian Terns,” Willamette University, Spring 2025.

Animal Behavior. “Early-life stress in birds: from sparrows to boobies,” Pfeiffer University, Spring 2021.

Senior Seminar Course. “Long-term effects of stress in wild birds,” Trinity University, Spring 2020.

Animal Behavior. “The ‘cycle of violence’ in Nazca boobies,” Wake Forest University, Spring 2013.

Animal Behavior. “The ‘cycle of violence’ in Nazca boobies,” Wake Forest University, Spring 2012.

Animal Physiology. “Hormonal effects of maltreatment in Nazca boobies,” High Point University, 2011.

Introduction to Biology. “Personality and stress in a seabird,” Davidson University, 2010.

Grant and Fellowship Writing. “Applying to the National Science Foundation GRFP,” 2008-2011. Wake Forest University School of Medicine.

SOCIETY MEMBERSHIPS

Gulf of Mexico Avian Monitoring Network

American Ornithological Society

Association of Field Ornithologists

Texas Chapter of the Wildlife Society

Phi Beta Kappa Honors Society

Gulf of Mexico Alliance

Society for Integrative and Comparative Biology

Waterbird Society

Tri Beta Biological Honor Society

COURSES TAUGHT

Conservation Biology (ECCB 304), Texas A&M University, Falls 2023 -2024

Fundamentals of Ecology (ECCB/RENH 205), Texas A&M University, Springs 2017-2024

Undergraduate Research (WFSC/ESSM/ECCB 491), Texas A&M University, 2017-ongoing

Directed Studies (ECCB 285/485), Texas A&M University, 2021-ongoing

Internship (WFSC 484), Texas A&M University, 2017-2021

Integrative Animal Behavior (EEBL 608), Texas A&M University, Spring 2020

Wetland Ecology (WFSC 628), Texas A&M University, Spring 2017

Avian Biology, Wake Forest University, Spring 2014

Comparative Physiology, and **Ecology and Evolution** laboratories, Wake Forest University, 2010-11, 2012-13, Fall 2013 (Teaching Assistant)

Behavioral Ecology, Univ. of Michigan Biological Station, Summers 2009, 2011 (TA)

Physiological Dynamics of Animals and Plants, and **Principles of Biology** laboratories, Willamette University, Fall semesters 2004, 2006, Spring 2007 (TA)

PROFESSIONAL DEVELOPMENT

Faculty Development Series: Managing difficult situations in the classroom, 2025

Successful Conflict Conversations, Faculty Affairs, Texas A&M University, 2025

Early career grant proposal writing forum, Texas A&M University, 2023

Faculty Mentoring Academy: Supporting Wellbeing, Texas A&M University, 2023

Supporting Neurodivergent Students, Texas A&M University, 2023

Faculty Success Program, National Center for Faculty Development and Diversity, Spring 2020-current

NSF CAREER proposal writing workshop, Texas A&M University, Spring 2018, 2019.
 Teaching & Learning in Higher Education Wakonse South Conference, Canyon of the Eagles Resort, 2017
 Lunch and Learn Pedagogy Workshops: “Motivating Pedagogy, Large Classes”, “Quick Low Tech Strategies to Motivate Students”, “Pedagogy Forum”, “Pedagogy Forum – Life Sciences”, Texas A&M University, 2016-2017.
 Aggie Disability Awareness Training Workshop, Texas A&M University, 2017
 Aggie Ally Training, Texas A&M University, 2017
 “Vision, Change, and the Case Studies Approach” workshop, Animal Behavior Society, 2011
 “Teaching with the Socratic Method”, Professional Development Center workshop, Wake Forest University, 2010
 “Who am I?: Identity in Teaching and Evaluation”, Professional Development Center workshop, Wake Forest University, 2010
 “Scientific Communication”, Biology Department, Wake Forest University, Spring 2011
 “Undergraduate Research and Teaching”, Biology Department, Wake Forest University, Spring 2011

PROFESSIONAL SERVICE

Grant proposal review panels:

Morris Animal Foundation Grant Review Panel member, Grassland Conservation, 2024
 USGS South Central Climate Adaptation Science Center Grant Review Panel, 2023
 National Science Foundation Review Panel member, Biology Directorate, 2020

Editorial service:

Associate Editor for the journal “Frontiers in Bird Science,” 2025
 Special Issue Editor for the journal “Frontiers in Bird Science,” 2024
 Special Issue Editor for the journal “Animals,” 2023-24
 Special Issue Editor for the journal “Frontiers in Ecology and Evolution,” 2022-23
 Reviewer for the journals Nature Scientific Reports, Environmental Pollution, Environmental Chemistry and Ecotoxicology, Biological Reviews, Evolution, Ecology and Evolution, Animal Behavior, Journal of Experimental Biology, Behaviour, Journal of Wildlife Management, Human-Wildlife Interactions, Molecular and Cellular Endocrinology, Physiology and Behavior, Comparative Biochemistry and Physiology, Part A, Functional Ecology, Ibis, and General and Comparative Endocrinology

Society service:

American Ornithological Society Elective Member, nominated and elected by the committee, 2024
 Gulf of Mexico Avian Monitoring Network, Chair of the Avian Health Working Group, Coordination Committee Member, 2019 - present
 Symposium organizer, Association of Field Ornithologists’ Annual Meeting (Ogden, UT), “Ecotoxicology in wild birds.” July 2025.
 Symposium organizer, Gulf of Mexico Conference (Tampa, FL), “Ecosystem health assessments: indicators, approaches, and examples linking science to action.” Feb. 2024
 Symposium organizer, International Symposium on Avian Endocrinology (Edinburgh, Scotland), “Avian Populations under Pressure: Endocrine indicators of health.” July 2022.
 Gulf of Mexico Avian Monitoring Network Annual Meeting, organizer of the Avian Health Working Group workshop. Oct. 2021.
 Ecological Society of America, student poster competition judge, 2018
 Society for Integrative and Comparative Biology, Pre-conference workshop participant for the Editor’s Grand Challenge: “Defining Stress”, 2018
 Society for Integrative and Comparative Biology, Student poster and presentation competition judge for the Division of Animal Behavior, and the Division of Comparative Endocrinology, 2017-2019
 Texas Chapter of the Wildlife Society, Student poster competition judge, 2017

University and Departmental service:

Dept. of Ecology and Conservation Biology, Texas A&M University, Disability Resources Academic Liaison, 2025-present
 Ecology and Evolutionary Biology Interdisciplinary Program, Texas A&M University, Curriculum Committee, 2024-present
 Center for Teaching Excellence, Texas A&M University, Montague-CTE Scholar Award proposal reviewer, Fall 2025
 Dept. of Ecology and Conservation Biology, Texas A&M University, proposal reviewer (Tom Slick Fellowship), 2024
 College of Agriculture and Life Sciences, Texas A&M University, proposal reviewer (Tom Slick Fellowship), 2023
 Dept. of Ecology and Conservation Biology, Texas A&M University committees: Graduate Programs, Faculty Search Committee: Ecosystem Scientist, Ecological and Natural Teaching Area Oversight, Residuals
 Dept. of Wildlife and Fisheries Sciences, Texas A&M University, committees: Committee on Bylaws, Climate and Diversity Committee, Awards Committee, Faculty Search Committee: Fish Ecologist.
 Graduate Student Rep. to the Committee for Information Technology, Wake Forest University, 2012-13
 Graduate Student Representative to the Biology Department Faculty, Wake Forest University, 2010-11
 Student Representative to the Faculty Search Committee, Willamette University, 2006-07

MENTORING and SCIENTIFIC OUTREACH

Darwin Day Event Exhibitor. College Station, TX, 2020, 2021, 2025

- In collaboration with graduate and undergraduate students, designed interactive activities and educational materials focused on avian ecophysiology for the general public.

Quail Field Investigation Day, Texas Wildlife Association, volunteer, 2016

- 8.5 hours of contact time with 250 7th grade students (Brenham school district), 30 volunteers, and 10 teachers as part of the LANDS: Intensive Program.

Research Mentor, Centre d'Etudes Biologique de Chizé, CNRS, France, 2015-2016

- Primary mentor for Masters students and senior undergraduate students conducting semi-independent research on stress and avian behavior during two month internships

Fernbank Natural History Museum, volunteer, 2014, Atlanta, GA

- Introduced museum visitors to current exhibits and educated visitors on fossils and specimens on display.

Boys and Girls Club Gardening Project, volunteer, 2009-2014, Winston-Salem, NC

- Developed two working, student-run gardens with at-risk students, ages 8-12, at the Winston-Salem Boys and Girls Club, from which students took home fresh fruits, vegetables, flowers, and herbs on a weekly basis

Developer, Coordinator, and Primary Instructor for high school outreach, Winston-Salem, NC, 2013

- Collaborated with two local high schools to develop and present curriculum including lectures, worksheets, hands-on activities, and small group sessions for over 500 students

Invited mentor and "authentic audience", Challenger Early College, Hickory, NC, 2013

- Mentored rural middle and high school students on the scientific method, using my research as a model system

Teaching with Tomatoes, volunteer, Forsyth County public schools, NC, 2012

- Led interactive classroom sessions for high school and middle school students on fundamental concepts and techniques in genetics, evolution, and plant biology using the tomato

Forsyth County Science Fair Judge, 2008, 2009, 2010, 2011, 2012

- Ward Elementary, Walkertown Elementary, Forsyth County, and Regional Science Fairs

WFU Biology Department Representative, Science & Technology Access for Rural Students, October 2008, 2011

- Conducted several short workshops on research being conducted by the Wake Forest University Biology Department for Watauga Co. High School students.

Research Mentor, Biology Department, Wake Forest University, Spring semester 2008, 2010-11, 2011-12

- Mentored senior undergraduate students conducting independent research investigating impacts of abusive behavior in the Nazca booby on nestling growth, and the evolution and function of avian yawning.

Invited Mentor, Garcia Elementary 5th Grade, Houston, TX, April 2008

- Tutored children on the theory of adaptation and its role in evolution with case studies from personal research

Naturalist, Willamette University 2006-07

- Lecturer at Student Scholarship Recognition Day and leader of the Campus Nature Walk