

Cellular Tracking Technologies

● she/her | 😭 avianecologist.com | 🖸 dendroica | 🛅 gorzo | 💆 setophaga

Recent Experience

Conservation Science Global, Inc.

Remote

RESEARCH ASSOCIATE

Mar. 2024 - Present

• Data wrangling and ecological analysis

Cellular Tracking Technologies LLC

Rio Grande, NJ

DATA SCIENTIST

Co-Founder

RESEARCHER

Jul. 2020 - Present

- Develop methodology to estimate locations from radio and Bluetooth signals from wildlife telemetry devices
- · Manage data pipelines and processes that deliver and display data via web interfaces

On the Wing Scientific Consulting LLC

Remote

Jul. 2018 - Present

- Data science consulting projects including spatio-temporal modeling
- · Create tools for improving workflows

Natural Resources Research Institute

Duluth, MN

Aug. 2016 - Jun. 2020

· Landscape Ecologist

Education.

Virginia Tech

Blacksburg, VA 2004-08

B.S. BIOLOGICAL SCIENCES

Clemson University

Clemson, SC

M.S. WILDLIFE & FISHERIES BIOLOGY

2009-11

University of Wisconsin

Madison, WI

Ph.D. WILDLIFE ECOLOGY

2012-16

Thesis & Dissertation

Gorzo, J. M. (2016). Avian Response to Weather in the Central US Grasslands [PhD thesis]. The University of Wisconsin-Madison.

Gorzo, J. M. (2012). Avian communities and landscape characteristics of golf courses within the Beaufort County sea island complex [Master's thesis]. Clemson University.

Peer-Reviewed Publications

Gorzo, J. M., Pidgeon, A. M., Thogmartin, W. E., Allstadt, A. J., Radeloff, V. C., Heglund, P. J., & Vavrus, S. J. (2016). Using the North American Breeding Bird Survey to assess broad-scale response of the continent's most imperiled avian community, grassland birds, to weather variability. *The Condor: Ornithological Applications*, 118(3), 502–512.

Schilke, P. R., Bartrons, M., Gorzo, J. M., Vander Zanden, M. J., Gratton, C., Howe, R. W., & Pidgeon, A. M. (2020). Modeling a cross-ecosystem subsidy: Forest songbird response to emergent aquatic insects. *Landscape Ecology*, 35, 1587–1604.

McIntyre, N., Liu, G., Gorzo, J. M., Wright, C. K., Guntenspergen, G. R., & Schwartz, F. (2019). Simulating the effects of climate variability on waterbodies and wetland-dependent birds in the Prairie Pothole Region. *Ecosphere*, 10(4),

Hamilton, C. M., Bateman, B. L., Gorzo, J. M., Reid, B., Thogmartin, W. E., Peery, M. Z., Heglund, P. J., Radeloff, V. C., & Pidgeon, A. M. (2018). Slow and steady wins the race? Future climate and land use change leaves the imperiled Blanding's turtle (Emydoidea blandingii) behind. *Biological Conservation*, 222, 75–85.

Latimer, C. E., Graves, R., Pidgeon, A. M., Gorzo, J. M., Henschell, M. M., Schilke, P. R., Hobi, M. L., Olah, A., Kennedy, C. M., Zuckerberg, B., et al. (2022). Rising novelty and homogenization of breeding bird communities in the US.

bioRxiv, 2022-2009.

Simonetti, J., Chou, A., Dowd, J., Gorzo, J., Grimm, C., Harold, M., Hubbard, R., Kuether, T., Loyd, R., Nipper, B., et al. (2008). Minor Planet Observations [841 Martin Observatory, Blacksburg]. *Minor Planet Circulars*, 62871, 9.

Conference Presentations

- Gorzo, J. M., & Wright, C. K. (2018). Mallard Distribution and Wetland Network Modularity in the Prairie Pothole Region (PPR). *IALE-NA*, *T02*, Terrestrial–aquatic ecosystem interactions.
- Gorzo, J. M. (2017). Waterfowl response to weather and land cover in the prairie potholes. *Proceedings of the Ninety-Eighth Annual Meeting*, 922. https://doi.org/10.1676/1559-4491-129.4.911
- Gorzo, J. M., Pidgeon, A., Allstadt, A., Thogmartin, W., Vavrus, S., & Heglund, P. (2016). Land cover and weather drivers of avian site fidelity. *Proceedings of the Society for Conservation Biology*.
- Wright, C. K., & Gorzo, J. M. (2018). For mallard ducks, the network is the habitat. *AGU Fall Meeting Abstracts*, 2018, H21L–1826.
- Gorzo, J. M., Pidgeon, A. M., Thogmartin, W., Allstadt, A., & Radeloff, V. (2015). Grassland bird response to weather in the badlands and prairies. *Meeting of the American Ornithologists' Union/Cooper Society*.
- Gorzo, J. M. (2014). Avian population response to extreme weather events. Nelson Earth Day Conference.
- Gorzo, J. M., & Jodice, P. G. R. (2011). The breeding bird community of coastal golf courses in Beaufort County, South Carolina. *Meeting of the American Ornithologists' Union*.
- Bateman, B., Gorzo, J. M., Pidgeon, A., Radeloff, V., Akcakaya, R., Flather, C., Albright, T., Vavrus, S., Thogmartin, W., & Heglund, P. (2013). Use of multiple data sources in identifying drivers of abundance in an irruptive species, the dickcissel. *Meeting of the American Ornithologists' Union/Cooper Ornithological Society*.
- Allstadt, A. J., Gorzo, J. M., Bateman, B. L., Heglund, P. J., Pidgeon, A. M., Thogmartin, W., Vavrus, S. J., & Radeloff, V. (2016). Effects of weather on the abundance and distribution on populations of 103 breeding bird species across the United States. *AGU Fall Meeting Abstracts*, 2016, GC11D–1181.

Technical Reports

Noe, R., Locke, C., Host, G., Gorzo, J., Johnson, L., Lonsdorf, E., Grinde, A., Joyce, M., Bednar, J., Dumke, J., et al. (2021). *Measuring what matters: Assessing the full suite of benefits of OHF investments*.

Johnson-Bice, S., Gorzo, J. M., Kovalenko, K., Brown, T., & Host, G. (2020). *Predicting Potential Beaver Dam Sites on Lake Superior's North Shore*. Natural Resources Research Institute.

Contributions

StellaR: http://www.r-gis.net/stellar/

Updated code for Supplement 1. R Script in 2016 for the publication: Jackson, M. M., Turner, M. G., Pearson, S. M., & Ives, A. R. (2012). Seeing the forest and the trees: multilevel models reveal both species and community patterns. Ecosphere, 3(9), 1-16. https://figshare.com/articles/dataset/Supplement_1_R_script_and_input_data_file_for_creating_multilevel_models_using_the_forest_herb_data_set_described_in_the_main_text_/3563784?file=5637069

Contributed "Raptors and songbirds" (8.4.5.1) pp.565-566 in Jodice, P. G. R., Tavano, J., Mackin, W., & Michel, J. (2013). South Atlantic information resources: data search and literature synthesis. US Department of the Interior, Bureau of Ocean Energy Management, regulation, and enforcement, Gulf of Mexico OCS region, 475, 587

Teaching _

SELECTED INVITED SEMINARS

Gorzo, J.M. "Career Perspective: From Wildlife to Data Science." Stockton University (remote) 4/18/24 Gorzo, J.M. "Networks and Connectivity in Landscape Ecology" University of Minnesota-Duluth, 2020 Gorzo, J.M. "Introduction to Birding & Community Science" University of Wisconsin-Stevens Point, 2016

Outreach, Service & Fundraising

- Birding field guide (paid and volunteer) for various festivals (2015-2023)
- World Series of Birding: Participant in Carbon Footprint Challenge (2015, 2021)