

Corrie D. Gonzalez

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Education

- 2023 MS Biology**, University Of New Mexico, Albuquerque, NM
- Advisor: Dr. Marcy Litvak
 - Thesis: Saplings Water Status Improved Following Overstory Mortality in a Semi-Arid Piñon-Juniper Woodland.
- 2015 BS Conservation Ecology**, New Mexico State University, Las Cruces, NM
- 2013 BS Individualized Studies, Biology Minor**, New Mexico State University, Las Cruces, NM

Professional Experience

- 10/2024 – Present** **GIS Coordinator and Ecologist (Sr. Research Scientist I)**, Natural Heritage New Mexico, UNM-Biology Dept., Albuquerque, NM
- Conduct spatial modeling, including species distribution modeling for conservation projects and identifying riparian and upland conservation opportunities. I specialize in spatial and ecological data analysis with ArcGIS and R programming. I manage GIS related projects, maintain spatial database, and foster stakeholder and landowner relations and write project reports.
- 09/2022 – 09/2024** **GIS Coordinator and Ecologist (Research Scientist III)**, Natural Heritage New Mexico, UNM-Biology Dept., Albuquerque, NM
- Spatial modeling for species distribution and riparian conservation using ArcGIS and R. Managed spatial data, worked on vegetation mapping, and maintain stakeholder relations, and produced project reports.
- 01/2022 – Present** **Owner, Ecological and GIS Consultant • CDR Ecologies LLC.**, Albuquerque, NM
- I specialize in species distribution modeling, spatial ecology, and ArcGIS mapping, collaborating with partners on data analysis, collection, and modeling. I also assist with R programming training and ArcGIS software.
- 04/2021 – 8/2022** **Ecological Research Scientist II**, Natural Heritage New Mexico, UNM-Biology Dept., Albuquerque, NM
- Vegetation mapping production and quality control. Species distribution modeling. Planned and coordinated fieldwork and developed collaborations for research and permits. Assisted staff with ArcGIS, managed data entry, contributed to report writing.
- 08/2014 – 04/2021** **Ecological Research Technician**, Natural Heritage New Mexico, UNM-Biology Dept., Albuquerque, NM
- I assisted in developing the New Mexico Riparian Habitat Map, contributed to reports, delivered ecological data to partners, and maintained the ecology database. I also managed GIS mapping, trained students in ArcGIS, coordinated fieldwork, and led crews in vegetation data collection.

07/2006 – Conservation Assistant, Seasonal On-call position, DMAC LLC, Socorro, NM
01/2019

Riparian restoration along the Middle Rio Grande by planting native trees and shrubs, controlling invasive species with spray equipment, building enclosures in fire-damaged areas, and constructing wire wildlife fencing for NRCS easement projects.

Professional Reports

Reasner, C., J.T. Giermakowski, and. 2022. Species Distribution Models for 17 Vertebrate Species of Greatest Conservation Need in New Mexico. Submitted to New Mexico Department of Game and Fish in partial fulfillment of Project Word Order: 210611.

Gonzalez, C., E. Muldavin, and J.T. Giermakowski. 2023. Species Distribution Models for 11 Vertebrate Species of Greatest Conservation Need in New Mexico. Submitted to New Mexico Department of Game and Fish in fulfillment of Project Word Order: 210611.

Muldavin, E., E. Milford, J. Triepke, **C. Gonzalez**, A. Urbanovsky, G. McCartha, A. Kennedy, Y. Chauvin, J. Smith, J. Leonard, L. Elliot, P. Hanberry, D. Diamond, and A.E. Clark. 2023. New Mexico Riparian Habitat Map (NMRipMap): Version 2.0 Plus. New Mexico Natural Heritage, Museum of Southwestern Biology, University of New Mexico; USDA Forest Service, Southwest Region; Missouri Resource Assessment Partnership (MoRAP), University of Missouri, and USDA Forest Service, Geospatial Technology and Applications Center (GTAC), Salt Lake City, UT. Accessible at nhnm.unm.edu/riparian/nmripmap.

Muldavin, E., **C. Gonzalez**, E. Milford. 2024. Riparian Conservation Opportunity Areas: A Toolkit for Riparian Conservation and Restoration in the Upper Rio Grande. Version 2.0. Natural Heritage New Mexico Tech. Report 431.

Conferences Activities

Gonzalez, C., J. T. Giermakowski, R. M. Simonetta, and E. M. Nowak. 2026. *Distribution of Native Amphibians in Grand Canyon National Park*. Presented at The Wildlife Society Joint Annual Meeting, Sedona, AZ.

Gonzalez, C., E. Milford, and E. Muldavin. 2025. *Riparian Conservation Opportunity Areas in New Mexico: Leveraging Vegetation Mapping for Conservation Planning*. Presented at the Southwest Association of Naturalists (SWAN) Conference, Albuquerque, NM.

Muldavin, E., A. Kennedy, and **C. Gonzalez**. 2025. *A Northern Chihuahuan Desert Vegetation Classification in the Context of the U.S. National Vegetation Classification and IUCN Global Typology*. Presented at the Ecological Society of America Annual Meeting, Baltimore, MD.

Muldavin, E., S. Sadoti, J. Triepke, and **C. Reasner**. 2022. *Climate Changed-Informed Conservation Opportunity Areas For Sensitive species: Modeling Rare Plants and Animals into the Future to Detect Refugia*. Ecological Society of America 2022 Annual Meeting, Montreal Canada.

Publications (In Prep)

Gonzalez, C., M. Litvak, S. Schwinning, and W. Pockman. In-prep 2024. Saplings Water Status Improved Following Overstory Mortality in a Semi-arid Piñon-Juniper Woodland.

Giermakowski, J.T., and **C. Gonzalez**. In-prep 2024. Fine-scale Distribution of the Arizona Toad (*Anaxyrus microscaphus*) at the Edge of its Range.

Presentations

2023 **Gonzalez, C.**, E. Muldavin, and E. Milford. Upper Rio Grande Riparian Ecological Assessment – Riparian Conservation Opportunity Areas in the Upper Rio Grande Basin. Upper Rio Grande Conservation Action Plan Workshop, Española, NM.

Professional Organizations

2023-present The Wildlife Society, Member

2024-present International Biogeography Society, Member

Selected Skills

- **Geospatial Analysis & Mapping:** ArcGIS Pro, ArcGIS Online; ArcGIS Experience Builder for web mapping applications; raster and vector analysis.
- **Programming Languages:** Proficient in R for spatial analysis, data analysis, raster processing, data wrangling, and data visualization
- **Web Mapping & Visualization:** JavaScript, HTML, CSS; development of interactive web maps and dashboards (e.g., Leaflet, D3).
- **Software Development:** Git, GitHub, Visual Studio Code