

Marvin Alejandro Tórrez Gutiérrez

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EDUCATION

- 2017 *Master in Science: Pedagogy to Climate Adaptation and Adaptation and Disaster Risk Reduction*
Universidad Centroamericana (UCA), Managua, Nicaragua
- 2004 *Bachelor's degree in Biology*
Universidad Nacional Autónoma de Nicaragua (UNAN), Managua, Nicaragua

PROFESSIONAL EXPERIENCE

- 2023-current *Researcher and advisor More People More Trees/Cornell University*
Researcher and advisor for habitat restoration, research-based products for the benefit of our collaborators.
- 2017-2022 *Researcher -Adjunct Professor- UCA, Managua, Nicaragua*
Biology and ecology professor; Faculty advisor and coordinator for an international course titled "Environmental and Economic Problems and Solutions in Nicaragua" adjunct with Seattle University
- 2011-2017 *Director Biological Field Station - UCA, Jinotega, Nicaragua*
Coordinate student exchanges and internships at both the field station and neighboring coffee farms; Facilitate field work with undergraduate students in biological science and ecology; Partner with various organizations and help to facilitate research projects being carried out in the surrounding areas of the field station; Management of all facilities at field station
- 2007 - 2011 *Biomonitoring Coordinator: Paso Pacifico NGO/ USAID – US Department of Agriculture- Forest Service*
- Project- "Conservation and Ecotourism in Critical Watersheds of Nicaragua".
- Scientific advisor for local NGOs; Conducted field work and data collection
 - Organized and managed databases used; Performed statistical analysis of data collected
 - Created tourism & promotional materials; Trained personnel involved in tourism

- 3/2007 – 9/2007 *Scientific Field Researcher: Bank of Netherlands Partnership Program/Centro AgronomicoTropical de Investigacion y Enseñanza*
Project- “The Impact of Improved Cattle Production Practices on Biodiversity in Central America”
- Collected field data using GIS technology
 - Performed bird banding to mark and track bird species activity, in different land uses all over the landscape.
- 1/2006 – 7/2006 *Scientific Field Researcher: USAID- US Department of Agriculture- Forest Service & Alianza para Las Áreas Silvestres*
Project- “Improving the development of Nicaraguan protected areas through the ecotourism”
- Scientific advisor for local NGOs; Conducted field work and data collection
 - Organized and managed databases used; Performed statistical analysis of data collected
 - Created tourism & promotional materials; Trained personnel involved in tourism
- 1/2005 – 9/2005 *Technical Assistant: Fondos Pequeños Proyectos-MARENA, WWF, Exchange s.a.*
Project- “One tree for Nicaragua”
- Scientific advisor for environmental education provided to school-aged children (elementary and high school)
 - Created educational materials used during presentations; Maintained inventory of all materials used
 - Training of interpreters that provided educational presentations
- 2002 - 2018 *Freelance Nature Guide: Nicaragua*
 Provided specialized tours in birdwatching and coffee-farming history in areas that included center highlands of Jinotega & Matagalpa, the Caribbean Forests, and all the pacific slope cities and surrounding ecosystems.

CONSULTANT EXPERIENCE

- 9/13 – 12/14 *Rapid Assessment Evaluation Scientific Field Coordinator*
Contractor: Environmental Resources Management, Hong Kong
 Nicaragua Canal Development

This team was responsible to assess the ecological impact the construction of the Nicaragua Canal would have on the surrounding environment. I was head coordinator of the avifauna team and created the protocol for data collection that was used during the field work. I also participated in data collection, facilitated and contributed to the writing of the final report.

- March 2013 *Ecological Rapid Assessment Scientific Coordinator*
Contractor: Nicaragua Beer Company Building Motion, S.A.

This team was responsible to assess the ecological impact of the company on vertebrates in the surrounding environment. As head coordinator for the vertebrate team I created the protocol for data collection and contributed to writing the final report.

January 2006 *Field Researcher Assistant*
Contractor: The Convensa company, S.A.

This project included an ecological rapid assessment for the installation of wind towers in Rivas, Nicaragua. I was responsible to detect and capture birds and bats in the area. I helped to create the database that was used for data entry and I entered all data collected.

SELECTED PUBLICATIONS

Journals Articles

1. Arendt, W. J., Paulino, M., Paulino, L., Tórrez, M. A., & Lane, O. (2019). **Colonization of Hipaniola by Margarops fuscatus, Vieillot (Pearly-eyed Thrasher).** *Urban Naturalist*, 23, 1-24.
2. Sotelo, M., López, A., Urcuyo, J., Arendt, W., & Tórrez, M. (2015). **Moluscos terrestres como indicadores de recuperación de bosque en los paisajes del Sur y Norcentro de Nicaragua.** *Revista Encuentro*, 102, 19–29.
3. Tórrez, M. A., Arendt, W. J., Sotelo, M., & López, A. (2014). **Indicadores taxonómicos de cambio de hábitat en los bosques nubosos de Nicaragua.** *Procedimientos del VIII Congreso Interdisciplinario de Investigación de la Universidad Centramericana.*
4. Lane, O. P., Arendt, W. J., Tórrez, M.A., & Gámez, J. C. (2013). **Pilot assessment of mercury exposure in selected biota from the lowlands of Nicaragua.** *Mesoamericana* 17, 19-28.
5. Tórrez, W.J. Arendt,M. Sotelo. (2013). **Diversidad y especies indicadoras de aves en la zona de paso del Istmo Rivas, Nicaragua.** *Revista de la Sociedad Mesoamericana para la Biología y la Conservación* 17(2), 39-48.
6. Arendt, W.J., M. A. Tórrez y S.J. Vílchez. (2012). **Diversidad de aves en agropaisajes en la región norte de Nicaragua.** *Ornitología Neotropical*, 23, 113–131.

Books & Book Chapters

De sante, D., Saracco, J., Pyle, P., Helton, L., Taylor, R., Kaschube, D., Albert, D., Carnes, B., Romo, C., Morales, S., Quintero, R., Fernández, J., Tórrez, M. (2021). *Manual de operaciones: El programa MoSI.* California, USA: Institute for the Bird Populations.

Tórrez, M. A., Chavarría-Durriau, L., Mejía, C., Muñoz, F., Zolotoff, J. M., Herrera, H., ... Acosta, A. (2018). **Taxón aves**. En Manzanares, et al. (Eds.), Lista Roja (2da edición): *Especies vertebradas en riesgo de extinción de Nicaragua* (pp 19–28). Managua, Nicaragua: Jóvenes Ambientalistas.

Morales, S., Zolotoff, J. M., Gutiérrez, M. & Tórrez, M. A. (2009). **Nicaragua**. En C. Devenish, D. F. Díaz-Fernández, R. P. Clay, I. Davidson & I. Yépez-abala (Eds.), Important Bird Areas Americas - Priority sites for biodiversity conservation (pp 281 – 288). Quito, Ecuador: BirdLife International (BirdLife Conservation Series No. 16).

Manuscripts in Progress

Tórrez, M. A., Chavarria-Durriau, L., Arendt, W. J., Albright, T., Jarquin, O., & Vilchez, S. Present and potential distribution for Nicaraguan Grackle (*Quiscalus nicaraguensis*), in Nicaragua big lakes and adjacent wetlands. *Diversity and Distribution*.

OTHER

Fluent in speaking /writing Spanish and English

GIS programs: QGIS

Statistics software: Experience with “R-project” packages, Infostat

Graphic design: Photoshop, Illustrator, In Design

References

Wayne Arendt, Ph.D.
Researcher, USDA Forest Service
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Msc. Sergio Vilchez
Researcher, CATIE
Email: svilchez@catie.ac.cr

