

Dr. Beltrán Luis Carlos

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EDUCATION

UNIVERSITY OF ILLINOIS IN CHICAGO (UIC)

DOCTORATE IN BIOLOGY

Dissertation: Planting Composition Effects on Tropical Forest Restoration
May 2021 | Chicago, IL, USA

LAKE FOREST COLLEGE

BACHELLOR OF ARTS (B.A.) IN BIOLOGY & ENVIRONMENTAL STUDIES

Thesis: Post-Dispersal Seed Fate of *Ocotea floribunda* (Lauraceae) in Monteverde, Costa Rica
Mayo 2015 | Lake Forest, IL, USA
Cum Laude | GPA: 3.62/4.00

FREELANCE SERVICES

DATA ANALYST

I offer biological data analysis services and, to date, have worked with more than 90 clients in over 20 countries. Featured clients: The Charcoal Project, West Coast Kelp.
[January 2024 - Present]

ACADEMIC WRITING AND PUBLISHING CONSULTANT

I offer technical English proofreading and style correction services, as well as consulting on the publication process of scientific articles. In addition, I teach a scientific writing workshop of my own design. Featured clients: Researchers from Univ. CES, Univ. of Antioquia, Humboldt Institute.
[September 2023 - Present]

FLUENCY

Spoken Languages:

- Spanish • English

Programming Languages:

- R • Javascript • Python • HTML
- CSS • LaTeX • React • Git

PONENCIAS RECIENTES

"PLANTING FOR THE FUTURE: ENHANCING SEEDLING RECRUITMENT THROUGH THE MANIPULATION OF SEED DISPERSAL PROCESSES"

ATBC Conference [01 July 2025]

PROFESSIONAL EXPERIENCE

XAVIERIAN PONTIFICAL UNIVERSITY

COURSE MENTOR [AUGUST 01 2025 – PRESENT]

I design course materials for the Forest Extensionists Certification Program and support students through the online platform, workbook, and in-person activities.

UNIVERSITY OF ANTIOQUIA

ADJUNCT PROFESSOR [MAY 09 2025 - AUGUST 09 2025]

I teach biology classes in eight municipalities in Antioquia as part of the Departmental Education Secretariat's Zero Semester Educational Strengthening Program.

XAVIERIAN PONTIFICAL UNIVERSITY

POSTDOCTORAL RESEARCHER [NOVEMBER 2021 - JANUARY 2024]

I supported the production of scientific articles and academic teaching materials, served as co-director of a Master's program, and obtained funding to lead a field trip.

UNIVERSITY OF ILLINOIS, CHICAGO

TEACHING ASSISTANT [DURING THE PHD]

- BIOS 365 - Human Ecological Systems [Jan. 2021 - May. 2021]
- BIOS 331 - Ecology Laboratory [Aug. 2017 - Dec. 2020]
- BIOS 101 - Populations and Communities [Aug. 2016 - May 2017]

LAKE FOREST COLLEGE

TEACHING ASSISTANT [DURING THE B.A.]

- BIOL 220 - Ecology & Evolution [Aug. - Dec. 2013 & 2014]

ADDITIONAL RESEARCH EXPERIENCE

MONTEVERDE INSTITUTE

JANUARY 2016 - JULY 2016 | MONTEVERDE, COSTA RICA

- I established an altitudinal monitoring network for lichens and bryophytes in Monteverde.
- I conducted reforestation workshops and supported tree nurseries.

SMITHSONIAN TROPICAL RESEARCH INSTITUTE

JANUARY 2014 – MAY 2014 | BARRO COLORADO ISLAND, PANAMÁ

- Assisted in the maintenance and harvest of a research project investigating the responses of mycorrhizae to nutrient additions..

GALÁPAGOS NATIONAL PARK

OCTOBER 2015 - JANUARY 2016 | ESPAÑOLA ISLAND, GALÁPAGOS, ECUADOR

- Daily monitored over 700 Nazca Booby (*Sula granti*) nests to collect individual reproductive data and band chicks.

RECENT PUBLICATIONS

- Polanco Vasquez AM, Beltrán LC, Rodríguez-León CH, Roa-Fuentes LL. 2025. Seed Rain Variation Across a Tropical Humid Forest Chronosequence. *Plant Ecol.* **1**:1–13.
- Beltrán LC, Aguilar-Dorantes KM, Roa-Fuentes LL, Martínez-Garza C, Howe HF. 2025. Above-ground competition by *Nephrolepis brownii* inhibits tree seedling recruitment in a tropical restoration experiment. *J Appl Ecol.* **62**:1968–1979.
- Obando Guzmán JK, Beltrán LC, Rodríguez-León CH, Roa-Fuentes LL. 2023. Pattern of Litterfall Production Throughout a Tropical Humid Forest Chronosequence. *Ecosystems* **26**:1–13.
- Beltrán LC, Martínez-Garza C, Howe HF. 2022. Return of Forest Structure and Diversity in Tropical Restoration Plantings. *Ecosphere* **13**:e4099.
- Beltrán LC, Howe HF. 2020. The Frailty of Tropical Restoration Plantings. *Restor Ecol.* **28**:16–21.
- Full list of publications: <https://beltranlab.netlify.app/research>