
LUIS CARLOS BELTRÁN, PHD

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SUMMARY

- Programmer and data analyst with a robust background in front-end development and a PhD in biological research.
- Deep understand of data management and analysis, including multiple linear regression, logistic regression, generalized mixed effects models, ordination, and other hypothesis-testing statistics.
- An emerging full-stack developer in training, increasingly proficient in building interactive and visually appealing web applications using React.
- Freelance data analyst on Fiverr specializing in detailed HTML reports created with R Markdown. As of July 24, 2024, completed 59 orders and received 27 reviews, all of them five-star reviews.
- Self-motivated, problem-solving, and collaborative scientist with excellent communication skills.
- Looking for professional opportunities to grow in programming or data analysis and contribute to impactful and innovative projects and organizations.

SKILLS

- **Programming Languages:** HTML, CSS, JavaScript, React, LaTeX, Shell script, Git.
- **Data Analysis Languages & Tools:** Microsoft Excel, R, R Studio, R Markdown, Python.
- **Development Tools:** Figma, Github, Netlify, Firestore.
- **Communication:** Highly skilled communicator, collaborative team member, passionate teacher, and experienced public speaker, adept at clarifying intricate concepts for diverse audiences.

DATA ANALYST EXPERIENCE

Fiverr

Remote Work

Freelance Biostatistician

Sept 2021 to present

- Successfully delivered 59 projects, primarily as HTML reports generated with R Markdown. Each report included annotated and organized code, along with accompanying output and interpretation.
- Delivered projects to clients worldwide, including those in Colombia, the United States, Germany, Sweden, Australia, Portugal, Saudi Arabia, France, Canada, Japan and other countries.
- Recent reports have included interactive sunburst graphs of taxonomical abundance, GLMs for evaluating fishing methods' efficacy, mixed-effects models predicting drone infrared temperatures from environmental variables, ANCOVAs assessing autism intervention likelihood influenced by social scores, and redundancy analyses linking metagenomic and geochemical variables.

The Charcoal Project & Food and Agriculture Organization (FAO)

Remote Work

Freelance Data Analyst

January 2024 to present

- Was hired to provide data analysis services for an FAO study focused on the challenges associated with access to energy for cooking in semi-permanent refugee camps in Uganda, Tanzania, Djibouti, and Somalia.
- Conducted Pearson's Chi-squared Test for Count Data to evaluate differences in living conditions between refugee and host communities.
- Employed bootstrapping to randomly resample the data in increments of 10, executing 1000 Chi-square tests at each step, to examine how the frequency of significant results shifts with increasing sample size.
- Developed numerous visual aids, including stacked barplots and bar charts with error bars, all utilizing R's ggplot2.

Lake Forest College & The University of Illinois, Chicago

Lake Forest & Chicago, IL

Undergraduate Student & PhD Candidate

August 2011 - May 2015 & August 2016 - May 2021

- Throughout my undergraduate and PhD studies, R was used extensively for data analyses and figure creation in my thesis and dissertation. This included mixed-effects models, ordination analyses, and various parametric and non-parametric tests.

EDUCATION & CERTIFICATES

- Meta Front-End Developer Professional Certificate, 2024
- Google Advanced Data Analytics Professional Certificate 2024
- PhD, Biological Sciences, University of Illinois, Chicago, 2021
- BA, Biology & Environmental Studies, Lake Forest College, 2015

PROGRAMMING PROJECTS

- **Tenzies:** A React.js app for playing Tenzies. Players roll ten dice, freezing matches and re-rolling until all dice show the same number. Utilizes local storage to track record time and rolls. ([Repo](#))
- **NoteMaker:** A React.js app for writing and saving notes in Markdown format. Stores data in Firestore from Firebase for global access. Imports ReactMde to create a Markdown editor. ([Repo](#))
- **Javascript Portfolio:** A static HTML website with links to 12 JavaScript projects, including games such as Snake and Tetris, a weather app that fetches data from OpenWeatherMap API, and more. ([Repo](#))
- **Little Lemon Restaurant:** A React.js app and capstone project of the Meta Front-End Developer Professional program. Includes routing for navigation, a form for booking a table, and testing files. ([Repo](#))