

# 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 for this gig 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, Netlify, 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 Data Analyst

Sept 2021 to present

- Successfully delivered 59 projects, most of these as HTML reports created with R Markdown, including annotated and organized code 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.
- Used Pearson's Chi-squared Test for Count Data to compare how refugee and host communities differed in the proportion of their answers to a variety of questions regarding their living conditions.
- Used bootstrapping to randomly resample the data at increasing intervals of 10, conducting 1000 Chi-square tests at each interval, to assess how the proportion of significant Chi-square results relate to increasing sample size.
- Provided several dozens of illustrations, including stacked barplots and bar charts with error bars, all created with 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

- During my undergraduate and PhD, I utilized R for all data analyses and figure creation in my thesis and dissertation, including 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, a fast-paced dice game where players roll ten dice, freezing any that match their target number, and re-rolling the rest until all ten dice show the same number. Uses local storage to keep track of record time and rolls.
- **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.
- **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.
- **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.