

# Carolina Virreira

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Passionate about sustainable and green technology.

## EDUCATION

### Bachelor of Science in Industrial Engineering | Minor in Data Analytics

May 2023

University of Arkansas, Fayetteville, AR

- Relevant Coursework:** Data Mining (R/MLR), Intro to OR (AMPL/CPLEX), Project Management (Visio/Lucid charts), Simulation (Arena), Business Analytics and Visualization (Tableau and SAS), Intro to Database (SQL/Access), Decision Support (VBA/Advanced Excel), Work Methods (Ergonomics/Time studies), PPC (ABC Modeling/Inventory control).

## SKILLS

- |       |            |             |                |                |                                 |
|-------|------------|-------------|----------------|----------------|---------------------------------|
| • R   | • Tableau  | • Six Sigma | • G Suite      | • ChatGPT      | • Scheduling                    |
| • SQL | • Power BI | • Kaizen    | • AMPL / CPLEX | • Lucid Charts | • Material Planning             |
| • VBA | • Access   | • MS Visio  | • Slack        | • Canva        | • Project Management            |
| • SAS | • Arena    | • MS Suite  | • Trello       | • SAP ERP      | • Fluent in English and Spanish |

## WORK EXPERIENCE

### Project Manager Intern | Wachter Electric Company, Lowell, AR

June 2022 - Aug 2022

- Created efficient project schedules, cost estimation analysis, and managed bid opportunity sourcing and evaluation.
- Reduced project budget by 31% and improved project completion time by 43% through creating a step by step recruiting guide to hire technicians for job sites. Saved >86,400\$/yr.
- Applied agile problem-solving methods across a wide range of platforms and websites, quickly resolving high-priority issues in a robust and fast-paced environment, following OSHA regulations.

### Business Analyst Intern | Bodega Casa Grande, Tarija, Bolivia

Dec 2021 - Jan 2022

- Migrated historical datasets to CSV formats for ease of access, visualization, and analysis for future use cases.
- Used MS Visio to effectively communicate a sales plan, resulting in a 3% increase in targeted locations.
- Coordinated with international wine companies to establish partnerships with Brazil and Argentina.

### Faulkner Arts Center Student Assistant | University of Arkansas, Fayetteville, AR

Aug 2021 - May 2023

- Provided customer service and communication while planning and executing events on-time and within budget.
- Managed aspects of booth tech, sound, and light set-up for successful concerts, ensuring seamless performances.

### Cross Cultural Mentor | University of Arkansas, Fayetteville, AR

Aug 2019 - Aug 2021

- Mentored 40-50 new international students per semester with academic integrity standards and campus rules.
- Cultivated an inclusive environment and promoted cross-cultural appreciation by proactively engaging with students through monthly surveys and open communication channels.

## PROJECTS

### Project Manager, Capstone Experience - Nestlé Industry Partner

Aug 2022 - May 2023

- Led a team of 5 students and coordinated with 2 corporate mentors, to improve a times series forecast modeled with R Studio and R Shiny.
- Used Slack and Trello for team communication, access to information, task assignment and progress tracking.
- Mitigated and reorganized historical data to balance the effect of COVID-19 sales trends. [Paper](#)
- Integrated a desktop app for the UI using Electron, enabling easy access for employees with no coding background.

### Predictive Modeling Project for YouTube Videos

Jan 2023 - April 2023

- Developed machine learning models (MLR and KNN) in R to predict the growth of views for YouTube videos in their first hours of release. [YouTube predictive model](#)
- Utilized data preprocessing techniques, including feature selection, filtering, and addressing multicollinearity, to ensure high-quality data for analysis.

### Decision Support System - Book Database

Aug 2022 - Dec 2022

- Constructed a GUI using Excel VBA to easily manage a book database from a Welcome tab.
- Included Add, Delete, and Update macros to accordingly manipulate the data and perform commands with ease.

### Spotify Business Analytics Regression

Aug 2022 - Dec 2022

- Analyzed, modeled, and forecasted Spotify data from 2010-2015 to recommend business decisions.
- Utilized SAS for regression testing and Tableau to create visualizations dashboards and find hidden insights.

### Operations Research Optimization Project

Aug 2021 - Dec 2021

- Implemented a p-median model in AMPL/CPLEX to strategically locate fire stations, optimizing the distance traveled by fire trucks. [Locating Fire Stations](#)
- Gathered data of current fire stations to support the model and find exact coordinates for optimal locations.