Athena Amancio-Alsobrook

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EDUCATION

University of Miami, Coral Gables, Florida.
Bachelor of Science in Exercise Physiology | Expected Graduation Date: May 2026
Relevant Coursework: Kinesiology, Applied Research Methods, Sports Psychology

WORK EXPERIENCE

Data Research Assistant | University of Miami | January 2025-Present.
- Conducted systematic literature reviews, screening and analyzing 5,000+ articles using SWIFT-Review to produce evidence-based insights on technology-driven interventions.
- Designed and implemented cross-cultural research projects, including application and evaluation of experiential learning methodologies in Italy.

Football Sport Science Student Worker | University of Miami Athletics | January 2024-Present.
- Supported sport science operations for an AP Top 25 football team, tracking player movement, workload, and readiness using Catapult GPS, Hawkin Dynamics Force Plates, and Perch.
- Maintained and managed sports data systems and servers, leveraging R and Python to ensure accurate data storage, processing, and pipeline functionality.

Data Consultant | RuRall | April 2025 -May 2025 | Brescia, Italy
- Used R to clean, analyze, and visualize datasets for a sustainability-focused agricultural software platform.
- Investigated variable weighting in carbon emissions models for Northern Italian farmers.

Olympic Sports Science Intern | University of Miami Athletics | October 2023-January 2024.
- Conducted force plate testing and GPS monitoring across seven Olympic sports.
- Helped process and interpret data for the strength and conditioning staff.

PROJECTS

Shiny App: Jump Asymmetry Analysis in Division I Football Players
- Developed an interactive R Shiny dashboard to calculate and visualize bilateral jump asymmetries for University of Miami football athletes.
- **Tech Stack:** R (Shiny, ggplot2, tidyverse)

The Sprint to the Draft: Evaluating the 40-yard Dash's Impact on WR Draft Selection – LinkedIn Post
- Conducted a quantitative analysis of historical WR combine data to evaluate the relationship between 40-yard dash times and NFL draft outcomes.
- **Tech Stack:** R (tidyverse, ggplot2), Canva

Infrared Thermography Player Deliverable – University of Miami Football
- Created a player-facing deliverable translating individual thermal imaging results into clear recovery recommendations.
  Educated athletes on the purpose and interpretation of thermography, helping them understand physiological indicators of stress and asymmetry.
- **Tech Stack:** ThermoHuman, Python (Pandas, Matplotlib), Microsoft Word

SKILLS

- **Data & Analytics:** R, Excel, Python, MySQL, HTML, ML concepts
- **Sports Tech:** Catapult, Hawkin Dynamics, DynaSpeed, Perch, Infrared thermography, Mx3 Hydration
- **Other Tools:** Canva, Adobe Microsoft Power Platform, Qualtrics, Server/Data Management