Ruben Urribarri Borjas

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EDUCATION AND HONORS

Texas A&M University, College of Arts and Sciences — College Station, TX

Bachelor of Science in **Applied Mathematics - Computational Sciences emphasis.** — Expected Graduation, May 2026

Minor in Physics, Minor in Computer Science

- Cumulative GPA: 3.71/4.0
- Sophomore Gathright Phi Kappa Phi Dean's Excellence Award | *Semi-finalist*
- G. Alan Cannon '88 Endowed Scholarship in Mathematics | *Finalist*

Relevant Courses: Analysis on the Real Line, Mathematical Probability, Numerical Methods, Data Structures and Algorithms, Linear Algebra, Program Design and Concepts, Discrete Math

Involvements: **Pi Mu Epsilon National Honor Society**, Texas A&M Math Honors Program, Texas A&M Computing Society, Texas A&M Math Club, Society of Hispanic Professional Engineers (SHPE), Competitive and Recreational Intramural Soccer, Aggie Coding Club.

PROJECTS

EURO 2024 Talent Analysis | *Project Manager*

Data Mining, Data Analysis, Data Cleaning, Data Visualization

- Analysis of around 480 players from the EURO 2024. Collected data from Kaggle and categorized the data to focus only on the players under 23 years of age.
- Performed data cleaning techniques using **Pandas** to handle missing values and to focus on the relevant data to analyze the KPIs (Key Performance Indicators) of the young players. **Detail-oriented data storytelling** by analyzing the players' scatterplots
- Created **data visualizations** using **matplotlib** and **Seaborn** to identify key players due to their performance as seen in the statistics

Premier League Gradient Descent Algorithm | *Project Manager*

Machine Learning, Predictive Modeling, Data Visualization

- Analyzed around 580 players from the Premier League using Pandas, **NumPy**, and machine learning algorithms
- Performed **data cleaning** techniques using pandas to handle missing values and to focus on the relevant data. Implemented the **gradient descent algorithm** to predict stat variables of professional soccer players such as expected wins and clean sheets
- Created data visualizations using matplotlib to generate scatterplots with **linear regression** to determine data correlation

AgTern App @ Aggie Coding Club | *Member*

Software Development, Front-End / Back-End, Collaborative Problem Solving

- Contribution to the coding process of an application that searches for all the jobs and internships available for students in Texas A&M University
- Developed **collaborative problem-solving skills** in the process as I worked in a **fast-paced environment** with 8 other students at Texas A&M
- Researched UI modeling and **Natural Language Processing (NLP)** to add more content to jobs for over 10+ hours bi-weekly.

EXPERIENCE

Student Research Week - Texas A&M University | *Volunteer* — College Station, TX

Data Management, Research — March 2024 - March 2024

- Familiarized with the process of research in the field of mathematics and other sciences. Showcased my **intellectual curiosity** in the way of thinking of researchers, and essentially the importance of teamwork while researching deep subjects.
- Managed data of researchers using **Google Drive** and **Google Sheets**.
- Collaborated with the Texas A&M community in their research areas such as **mathematics**, **biomedical engineering**, and **project management**, and learned to appreciate the research process as it can lead to life-changing innovations in the future

Parkway Fellowship - Family Hope | *Volunteer* — Katy, TX

Data Management, Client Communications — May 2021 - Sept 2022

- Managed customer data for food donation activities primarily for low-income families at the church
- Strongly developed **interpersonal skills** and **social skills** in **English (Fluent)** and **Spanish (Fluent/Native)**.
- Improved **data accuracy** of customers by organizing their applications, tracking over 108 hours of volunteer service
- Contributed to the successful distribution of meals to over 3000 families, demonstrating the positive impact of effective data management and communication

CERTIFICATIONS

J. P. Morgan Chase & Co - Software Engineering, BCGX - Data Science, Forage | *Virtual Internship Certification*

IBM - Python for Data Science, AI & Development, UC Davis - SQL for Data Science, Coursera | *Professional Certification*

TECHNICAL SKILLS

Programming Languages: Python, C++, R, LaTeX, MATLAB, SQL, HTML/CSS

Libraries & Tools:

- **Data Science**: Pandas, NumPy, Matplotlib, Seaborn, BeautifulSoup, SciKit-Learn
- **Data Management & Analysis**: Excel, SQL (DBeaver, SQLite)
- **Development & Collaboration:** GitHub, Git, Jupyter Notebook, Visual Studio Code, Anaconda