Dulce Perez Angeles

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EDUCATION

University of Alabama at Birmingham   Expected Graduation: May 2025

- Bachelor of Science in Economics, concentration in Mathematical Economics   UAB GPA: 3.85/4.00
- Bachelor of Science in Computer Science
- Minor in Mathematics

Relevant and Prospective Coursework

- Economics/Mathematics: Calculus I-III, (400-Level) Mathematical Probability, (400-Level) Mathematical Statistics, Intro to Differential Equations, Intro to Linear Algebra, Intermediate Microeconomics & Macroeconomics, Econometrics, (400-Level), (MBA) Economics for Managers
- Computer Science: Data Structures & Algorithms, Automata and Formal Languages, Adv. Database Application Development, Programming Paradigms, Cybersecurity Engineering, AI & Adv. Computing Strategies

Honors & Achievements

- Presidential Dean's List: Fall 2021 - Fall 2022, Fall 2023, Fall 2024; Dean's List: Spring 2023
- UAB's Honor College, Personalized Path – High Distinguished Honors
- UAB's Full Presidential Merit Scholarship, NaphCare Endowed Scholarship (Computer Science Department)
- UAB's Early Acceptance to Graduate School
- Seal of Biliteracy in Spanish & French
    - Global Seal of Biliteracy in Spanish (Working Fluency), STAMP examination
- External Scholarships: Youth Foundation's Hadden Scholar, NaphCare Charitable Foundation, Dawson Foundation

Research Interests

- Econometrics, Computational Economics, Machine Learning, Causal Inferences, Big Data

TECHNICAL SKILLS

Certifications: AWS Academy Cloud Foundations, AWS Academy Cloud Security Foundations
Languages: Python, Java, C, SQL, R
Developer Tools: Git, Github, VS Code, STATA, Jira, Azure DevOps, PuTTY
IDEs: Visual Studio, PyCharm, Eclipse, IntelliJ IDEA, RStudio, Godot
Platforms & Technologies: Azure Data Lake, Azure Databricks, SQL Server Integration Services (SSIS), PowerBI
Databases: Google BigQuery (GCP), SQL Server Management Studio, PostgreSQL, Amazon RDS, DynamoDB
Cloud Tools: AWS (EC2/S3/VPC/IAM/Lambda/EBS)

ACADEMIC PROJECTS

ImmunoHeroes|Git, Godot, C#/C++, GDScript

- Developing engaging game mechanics to promote efficient understanding of immunological concepts
- Facilitating in agile development as Scrum Master, coordinating team sprints to meet project milestones

Group Economics Paper |Census Bureau's API, Python, Pandas, Stata, IPUMS

- Researched trends in the attainment of homeownership for Latino households, creating regression to test hypothesis
- Met regularly with economists for advice and direction in my collaborative research paper

PERSONAL PROJECTS

Personal Portfolio Website |HTML, CSS, Git/Github

- Designed personal website to showcase technical skills and projects

INTERNSHIP PROJECTS

Automated Testing Framework|Google BigQuery (GBQ), BigQuery API, Python
- Developed a framework to ingest queries, execute against GBQ, and push data frames to GBQ tables
- Created a program that takes in query templates and concatenate parameters from JSON Metadata objects, alleviating the end-user's need to recreate duplicate structures of queries

RShiny Web Reporting Application|R (Shiny)
- Developed a web-based application for efficient data ingestion from databases
- Designed user interfaces to present reporting data tailored to meet business needs

SQL Program Reporting Database|SQL Server Integration Services (SSIS), SQL Server Management Studio (SSMS)
- Executed, transformed, and loaded (ETL) processes for spreadsheet data
- Scripted customized views in SSMS for integration on PowerBI
- Implemented and redesigned a schema diagram for the relational database

Big Data Processing|Microsoft Azure Data Lake, Databricks, Python (Pandas, PySpark)
- Reviewed previous code to revamp process for end-use meter data aggregation, improving quality metrics
- Conducted statistical analysis and algorithms on the end-use meter data for enhanced data analysis

Voltage Optimization Reporting Dashboard|PowerBI, R
- Built data visualizations and an interactive dashboards for comprehensive business reporting
- Presented dashboard to program managers for feedback on future implementations

TECHNICAL EXPERIENCE

FIRST HORIZON, **Model Risk Management Intern**   Sep. 2024 - Nov. 2024
- Expanded knowledge of linear regression, logistic regression, and machine learning models and their applications in the financial industry
- Collaborated with senior analysts to apply basic data science techniques in the analysis and development of models
- Assisted in maintaining an inventory of models used in Treasury, Credit, Money Laundering, and Fraud departments

MOTION (Genuine Parts Company), **Business Intelligence Developer Intern**   May 2024 - August 2024
- Developed a framework, centralizing test case execution and enabling scheduling, to track and report on data quality
- Designed a Power Query script from Azure DevOps Board data to create a PowerBI Dependency Board visual
- Participated in stand-ups and attended refinement, iteration planning and team meetings with Scrum Masters
- Assisted Talent Acquisition to recruit for Bilingual roles through Linkedin and word-of-mouth

UAB SCHOOL OF ENGINEERING, **Cloud Computing Research Assistant**   Jan. 2024 - April 2024
- Expanded technical skills with Redis, a messaging system for real-time data processing
- Leveraged the Python package River to create and manage data streams for seamless data flow and analysis

TENNESSEE VALLEY AUTHORITY, **Data Science Intern**   Jan. 2023 - Dec. 2023
- Collaboratively led data engineering tasks, analytics, visualizations, and coding for project support
- Completed 10+ workshops led by subject-matter experts to develop and apply programming skills
- Attended conferences and all-hands to expand industry knowledge and contribute to an agile team environment
- Conducted evaluation, measurement and verification of TVA's end-use programs that guide energy-efficiency strategies
- Engaged in professional development events, including participation in employee resource groups

WORK EXPERIENCE

FH CONCESSIONS, **Shift Leader**   Feb. 2021 - Aug. 2022
- Reviewed Square's POS currency and credit transactions in 200+ orders, amounting to $2,000 for each shift
- Trained new team members in transactions, restocking, food preparation, and the company's values
- Analyzed past transactions for trends in sales to evaluate inventory control of 25+ food options

KRISPY KREME, **Team Member**   June 2020 - May 2021
- Provided excellent customer service during high-volume, fast-paced operations while understaffed
- Handled currency and credit transactions in 300+ orders, amounting to $2,000 for each shift

PROFESSIONAL DEVELOPMENT

SOCIETY OF WOMEN ENGINEERS AT UAB, **Member**   Sept. 2022 - Present
- Engaged in a variety of career-building workshops that strengthened my technical knowledge and preparation for a technology-oriented career
- Represented UAB at the 2022 and 2023 National Conference of the Society of Women Engineers to expand my professional network and gained insights into industry trends

USGA FRESHMAN FORUM, **Member**   Sept. 2021 - Apr. 2022
- Collaborated with fellow freshmen to identify and address campus issues, fostering skills in solution-oriented thinking and innovation
- Participated in networking sessions and etiquette workshops led by USGA leaders, gaining a foundational understanding of student government and leadership

UAB'S FIRST IMPACT, **Member**   Aug. 2021 - Apr. 2022
- Attended weekly leadership development workshops about strength-based leadership and service-oriented approaches
- Contributed in executive board meetings with the gg.UAB team, assisting in marketing strategies and event planning, including game selections for community engagement events.
- Took part in community service projects in Birmingham, strengthening servant leadership skills such as empathy, awareness, and stewardship.

LEADERSHIP & SCHOOL INVOLVEMENT

SPANISH AND LATINO STUDENT ASSOCIATION
Vice President   Apr. 2023 - Apr. 2024
- Advised the Dia de los Muertos Committee, overseeing the event planning and outreach strategies
- Foster relationships with 5+ local businesses for sponsorships and event participation opportunities
- Engage in executive board meetings, ensuring effective communication and delegation of responsibilities

Fundraising Officer   Jan. 2023 - Apr. 2023
- Established fundraising events and preparation in the event planning: prepping food and drink items for students
- Collaborated with executive board and committee members to build a list of 20+ event ideas for 200+ event attendees
- Reviewed 7+ multicultural and Hispanic-serving organizations for possible sponsorship and fundraising opportunities

Dia de Los Muertos Committee – Finance   Sept. 2022 - Nov. 2023
- Developed a budget of food items and decorations and the quantity of each to be bought for the DDLM event

BUSINESS STUDENT ORGANIZATION FOR LATINOS, **Events Coordinator**   Nov. 2023 - Present
- Organized networking opportunities for the professional development of Latino Students
- Promoted the organization's vision of providing an inclusive and encouraging environment at community events

OFF-CAMPUS STUDENT COUNCIL, **Academics Committee Member**   Mar. 2023 - Apr. 2024
- Brainstormed events tailored to the needs of off-campus students for the promotion of academic success
- Create opportunities for community engagement in connection, relationships, and participation

EXTRACURRICULAR ACTIVITIES

DAWSON MEMORIAL BAPTIST CHURCH, **Member**   May 2021 - Present
- Tutor members of the congregation in mathematics, ranging from calculus to statistics
- Assist in the Hispanic Congregation's Children Ministry through weekly lessons and leading discussion groups
- Participate in Young Adult/College Ministry community events and 2-3 evening gatherings each week
- Led Wednesday Night discussion groups for the Hispanic Congregation's Youth Ministry