

Ana Isabel Lopez Murillo

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EDUCATION

University of North Carolina – Chapel Hill

August 2021 – May 2025

Bachelor of Science, Computer Science

GPA 3.78

Minors, Astronomy, Physics

- **Relevant Coursework:** Data Structures and Algorithms. Calculus I-III. Linear Algebra. Modern Web Development. Differential Equations. Software Engineering. Systems Fundamentals. Calculus-Based Physics.

Honors

Chancellor's Science Scholar: Highly selective merit-based STEM scholarship program.

Honors Carolina: Competitive, four-year academic program enrolling 10% of each class.

Awards: CSS Distinguished Scholar Award Fall 2023. Dean's List Fall 2021, Spring 2022, Fall 2022, Spring 2023, Fall 2023, Spring 2024. Renwick Scholar Academic Award 2022, 2023.

PROFESSIONAL EXPERIENCE

UNC Department of Physics and Astronomy

Chapel Hill, NC

Undergraduate Research Assistant

January 2023 – Present

- Applying algorithmic statistics and Python packages to optimize transit data analysis, uncovering transit timing variations (TTVs) through statistical modeling and optimization techniques.
- Utilizing data visualization tools such as NumPy and Matplotlib for efficient data manipulation and presentation, enabling clear communication of findings on scientific research papers and team.

Muro Jewelry

Huntersville, NC

Retail Associate and Website Development

January 2020 – Summer 2022

- Coordinated and executed business at the management and storefront levels, including customer service, retail activities, and leadership roles.
- Spearheaded website production updates and assisted in Shopify front-end web page development and management.

PROJECTS AND OUTSIDE EXPERIENCE

iGEM at UNC

Chapel Hill, NC

Wiki Lead

January 2023 – Present

- Developed and fully engineered first-ever Team Wiki website using HTML/CSS and JavaScript.
- Collaborated closely with relevant stakeholders to lead technical development and project management areas.
- Designed and created website assets and graphics to ensure a cohesive and visually appealing user experience.

Pearl Hacks

Chapel Hill, NC

Director of Design

April 2023 – Present

- Responsible for design and production of all graphics and promotional materials, including artwork, advertisements, website vector graphics, and brochures.
- Motivating marketing efforts by coordinating and collecting feedback from stakeholders and executive team from both a project management and promotional perspective.

SKILLS

Technical: Java, Python, C, Javascript, TypeScript, AngularJS, RxJS, HTML/CSS, Bootstrap, Git, REST APIs, Docker, HTTP Protocol, SQL, SQLAlchemy, R, NumPy, Pandas, Matplotlib, Microsoft Suite, Mathematica.

Competencies: Full Stack Development, Statistical Modeling, Optimization, UML Class Diagramming, Project Management, Interpersonal Communication, Creative Problem-Solving, Effective Communication.

Languages: Spanish