Antonio Mendoza

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Education:

University of North Carolina, Chapel Hill: B.S. in Comp. Science; **Graduating: May, 2022**

- **Relevant Courses:** Machine Learning, Linear Algebra, Combinatorics, Data Analysis, Calc III, Algorithms
- **Scholarships:** Hispanic Scholarship Fund, Tar Heel Merit Scholarship

Experience

URGD. Research Assistant (PI: Mohit Bansal; UNC-NLP lab) *Fall 2019 - Present*

- Developing advanced networks which are able to reason/compose an optimal/unique composition of sub-networks entailed by specific inputs for publication
- Creating of novel approaches to common problems in Machine Learning both with PhD students and individually.
- Implementing state of the are research from journal publications into current research projects

Fidelity Investments - Software Engineering *Durham, NC: Summer 2019*

- Programmed a company-wide health dashboard both for monitoring server and software statistics and mapping up and downstream system dependencies together
- Linked customer-facing products, internal applications, and servers through recursively creating connections between each piece of hard/software and caching queried items from SQL databases to view both up and downstream dependencies and statistics efficiently

The Jackson Laboratory Summer Student Program *Bar Harbor, ME: Summer 2018*

- Identified candidate miRNAs that could be used as circulating biomarkers and/or therapeutic targets in non-small cell lung cancer using PDX mouse models in combination with high throughput sequencing data.
- Automated miRNA alignment through a multi-script pipeline in R to a reference database on a **HPC**

Projects

Natural Language Processing with Deep Learning CS224N *Online: Spring 2019*

- Utilized single end-to-end neural models that without feature engineering
- Through the assignments, I have visualized word embeddings, recreated the W2V model, and programmed both an English dependency parser and a Bi-LSTM with attention for machine translation.

Hackathons *Spring 2019 - Fall 2020*

- Creation of web-application, *PackHacks*: no-SQL database for students to buy and sell college meal-plan swipes
- Honorable Mention*, Amazon Alexa Skill National Hackathon***:** developed a study buddy voice assistant application
- **Best use of Machine Learning**, *HackNC*: transfer-Learning on BERT summarization model for real-estate data

Professional Skills:

Programming

- Languages: Python (**PyTorch**) (**TensorFlow**), R, JavaScript, LaTeX (Proficient), Java, C (Novice)
- Other: shell scripting, HTML, CSS (Novice), SQL (Experience), GIT, REST, AWS, Docker, Kubernetes

Teamwork and Independence

- Hosted Java classes for new students on my robotics team
- Teach music theory and classical guitar to children through Musical Empowerment
- **Computer Science Student ambassador 2019-Present**: Assist with external relations, serve as liaison for visiting companies, and work with a diversity of students to involve them in Comp. Sci.