# Jimmy Mendez

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## Contact Information

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## Education

BSc, Economics, Florida State University 2018–2021

Coursework: (Minors in math and computer science), business statistics, econometrics, data structures and algorithms, single and multivariable calculus, static optimization, ordinary differential equations, linear algebra, deep and reinforcement learning

Clubs/Organizations: Economics Club, Securities Society, Hispanic Honor Society

Honors/Awards: Deans List, Reva Daniels Metzinger Scholarship

American Economic Association Summer Program, Howard University Summer 2021

Coursework: Econometrics II, Mathematical Economics, Microeconomic Theory

## Employment

MIT Sloan School of Management - Predoctoral Research Associate August 2021 – Present

Working with Professors Charles Angelucci, Jing Li, and Mert Demirer on a range of different projects, and using a variety of tools such as R, Stata, and Python for tasks including data cleaning, data manipulation, web scraping, text analysis, and other computational work

Built various tools for data construction and cleaning, i.e.: address standardizer tool in Python, a set of programs that creates a dataset for every act in every state from 2005-2020 using ocr state law session text files, a script that gets price data from a large text file, etc.

Princeton University - Research Assistant January–July 2021

Worked alongside Professor Christopher Neilson on creating a global dataset describing different countries' school choice mechanisms, specifically ones that have centralized school assignment mechanisms in place

Online Adventure Camps - Summer Camp Counselor May–August 2020

Worked as a summer camp counselor teaching kids various platforms, including creating Minecraft mods in Java, 3D modelling, and 2d animation

## Research

Senior Thesis: Competitive Rise and Decline of Countries and Industries Defended April 2021

Committee: Mikhail Dmitriev (advisor), Paul Beaumont, Sergey Mityakov

Created an index of trade competition and used it to forecast future growth across countries

Forecasting Inflation Before and During a Crisis - An Automatic Model Selection Approach July 2021

Done under the supervision of economists Neil Ericsson and Justin Pierce from the Federal Reserve Board of Governors

Compared various different forecasting models and how they performed before and during the COVID-19 pandemic

## Projects

Modern Portfolio Theory

Implemented the main ideas behind Harry Markowitz's Modern Portfolio Theory in python

Constructed mathematical computations from scratch such as covariance matrices, correlation, and expected values

Dinner Recommendations

Created an app in Python that records the user's location and gives them dinner recommendations based on certain criteria

Used BeautifulSoup for web scraping and PyQt5 for UI development

Centralized Schools Systems

Implementing centralized school system algorithms in C++

Constructing existing matching market algorithms such as the Boston, Deferred Acceptance, and Gale Shapley algorithms

Twitter Sentiment Analysis

Implemented a classifier that takes in twitter data and outputs a sentiment value

Book Recommendations

Creating an app that gives book recommendations based on past books read

Pitched

Creating an app that allows users to submit video resumes to companies

Arduino Remote Control Car

Used an Arduino Uno to build a remote control car that is controlled by my phone via Bluetooth

## Presentations

Pre-doctoral Research in Economics (PRE) workshop June 2021

Served as a Stata/R mentor for the 2- day conference and helped a group of students to complete a data task, and held office hours afterward to help students sharpen their coding skills

Promoting Inclusion in Economics Research (PIER) conference, Williams College May 2021

Presented my undergraduate thesis

## Other

Languages: Spanish (native), English (native)

Interests: LEGO building, 3D-printing, drawing, guitar, soccer