

Belicia Taylor Rodriguez

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Education

Emory University - Atlanta, GA

Aug 2017 – Dec 2020

BA in Economics & Mathematics, English Minor

College of Arts and Sciences

Related Coursework:

- **Mathematics:** Abstract Vector Spaces; Linear Algebra; Differential Equations; Calculus I, II, & III; Math Statistics I & II
- **Economics:** Econometrics; Intermediate Microeconomics; Intermediate Macroeconomics
- **Computer Science:** Empirical Methods & Machine Learning; Introduction to Computer Science

Programming Skills

- **Languages:** Python, R, SQL, Shell, \LaTeX , Java, C
- **Cloud Computing:** Azure Virtual Machines; Azure Databricks; AWS EC2; AWS SageMaker
- **Self-Study:** *Text Analytics with Python: A Practitioner's Guide to Natural Language Processing* by Dipanjan Sarkar
- **Certificates:** Introduction to Data Science in Python (Coursera); TensorFlow in Practice (Coursera)

Professional & Research Experience

Federal Reserve Bank of New York

Jan 2021 – Present

Sr. Research Analyst

Emory Summer Undergraduate Research Experience (SURE) Program

May 2020 – July 2020

Research Assistant

- Worked as a full-time research assistant under Dr. David Jacho-Chavez on studying co-authorship networks from top-five general interest economics journals using social network analysis and natural language processing
- Explored co-authorship connections using Python's NetworkX and using natural language processing tools from Python's Scikit-Learn and SpaCy
- Created network visualizations using Gephi and visualizations of exploratory analysis using Matplotlib and TIKZplotlib
- Created weekly presentations using \LaTeX Beamer and presented updates on research progress and findings to SURE mentor and research group which accumulated into a final research poster
- Used a 32-core Linux virtual machine on Azure and Python's Multiprocessing package to compute-heavy co-authorship network calculations in parallel
- Created a Waf reproducible research template which automatically runs all Python code and reproduces the analysis and results from the project

Emory Scholarly Inquiry & Research Experience (SIRE) Program

Sept 2018 – Dec 2018

Research Assistant

- Assisted Dr. Stephen O'Connell with research on the gender differences in state legislator's career aspirations and on the effectiveness of United Nations refugee assistance program in Lebanon by analyzing survey data
- Recoded data from Stata or Excel files, ran statistical analysis on important variables, and wrote summaries of the findings all within an R Markdown document
- Read and gathered research papers on effectiveness of gender quotas for governing positions and gender gaps on state governments using EBSCO, Jstor and Science Direct to be referenced in a literature review

Additional Experience

Emory Pathways to Academic and Student Support (EPASS)

Jan 2020 – Dec 2020

Peer Tutor

- Tutor over 10 undergraduate students one-on-one in Intermediate Microeconomics or Intermediate Macroeconomics for one-hour sessions at least six times a week
- Review practice problems and course content with students and recommend learning strategies for the course

Emory Oral History Program

July 2019 – July 2020

Program Assistant

- Transcribed over 25 interviews of Emory students, staff, and other members of the Emory community that will be preserved in Emory University's Stuart A. Rose Manuscript, Archives, and Rare Book Library
- Promoted and educated the Emory community on the mission and purpose of the Emory Oral History Project through tabling and class talks

Community Involvement

Emory Economics Review

Sept 2019 – April 2020

Co-Editor

- Edited over 10 articles for the Emory Economics Review website and bi-yearly magazine
- Worked with a group of writers on their article content and writing techniques

The Emory Wheel

Sept 2017 – Oct 2018

Senior Staff Writer

- Wrote 36 articles for the weekly newspaper covering student government meetings, Emory campus events, and Emory's connection to the greater Atlanta area
- Conducted phone and in-person interviews for articles about Emory organizations and student body
- Reported as the beat writer for weekly Emory student government association meetings

Let's Get Ready - New York, NY

June 2018 – Aug 2018

Coach (Teacher & Mentor)

- Taught SAT Math topics and test-taking skills and lead discussions about the college application process to 12-15 rising high school seniors for three hours twice a week
- Individually communicated with students to ask about their class experience
- Commented and provided feedback to student's college essays in the Fall/Winter after the program ended

Ngambika Emory First-Year Step Team

Sept 2017 – Feb 2018

Step Dancer & Member

- Practiced three times a week for two hours in preparation for our 30-minute 2017 winter performance
- Volunteered at various events on Emory Campus and Greater Atlanta area with Ngambika members

Additional Skills

- **Microsoft Office:** Word; Excel; PowerPoint; MS Teams
- **Languages:** Spanish (Intermediate); French (Beginner)
- **Extra-curriculars:** Knitting; Data Science Blogger