

# Belicia Taylor Rodriguez

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## Education

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### Emory University - Atlanta, GA

Aug 2017 – Dec 2020

*BA in Economics & Mathematics, English Minor*

College of Arts and Sciences

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

## Programming Skills

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- **Languages:** Python (Advanced); R (Intermediate); Java (Beginner); SQL (Beginner);  $\LaTeX$  (Intermediate)
- **Cloud Computing:** Azure Virtual Machines, Databricks (Beginner); AWS EC2, SageMaker (Beginner)
- **Packages:** Scikit-Learn (Intermediate); NetworkX (Intermediate); NLTK (Intermediate); SpaCy (Beginner); TensorFlow (Beginner); Gensim (Beginner); Tidyverse (Intermediate); ggplot (Intermediate); iGraph (Beginner)
- **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)

## Research Experience

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### 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 Department of Economics

Sept 2019 – Jan 2020

*Research Course Student*

- Produced a 15-20 page research paper on past humanitarian crises and the methods past governments, non-government organizations, and/or humanitarian organizations used to distribute aid to refugees. The paper provided background information for Dr. Stephen O'Connell's research on methods for targeting humanitarian aid and cash transfers.

### 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

## Work Experience

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### Emory Pathways to Academic and Student Support (EPASS)

Jan 2020 – Present

*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**

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### **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**

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- **Microsoft Office:** Word (Advanced); Excel (Advanced); PowerPoint (Advanced); MS Teams (Intermediate)
- **Languages:** Spanish (Intermediate); French (Beginner)
- **Extra-curriculars:** Book Reviewer; Beginning Yogi