

# Belicia Rodriguez

## Curriculum Vitae

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### Education

Aug 2017 - **Emory University College of Arts and Sciences**, Atlanta, GA.

December BA in Economics & Mathematics, English Minor

2020 Cumulative GPA: 3.59/4.0 | Major GPA: 3.64/4.0

#### *Related Coursework*

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

Sept 2013 - **Dwight-Englewood HS**, Englewood, NJ.

May 2017 *Accolades*: Cum Laude Society | Bryn Mawr Book Award

### Work Experience

Jan 2020 - **Emory Pathways to Academic and Student Support (EPASS) Peer Tutor.**

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

July 2019 - **Emory Oral History Program Program Assistant.**

- July 2020 ○ 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

### Research

Aug 2020 - **Emory Department of Economics, Research Course Research Assistant.**

- Present ○ Continuing to work on co-authorship research from SURE program under Dr. David Jacho-Chavez

May 2020 - **Summer Undergraduate Research Experience (SURE) Program Research Assistant.**

- July 2020 ○ Worked as a full-time research assistant under Dr. David Jacho-Chavez on creating co-authorship networks from top-five general interest economics journals and explored co-authorship connections using natural language processing
- Created co-authorship networks using Python's NetworkX, normalized titles and abstracts using SpaCy, and created visualizations of networks using Gephi and visualizations of exploratory data 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
- Studied natural language processing from *Text Analytics with Python: A Practitioner's Guide to Natural Language Processing* before program in preparation for research project
- Used Linux virtual machine on Azure for compute-heavy co-authorship network calculations
- Presented a poster on summer research in the SURE asynchronous virtual symposium
- Attended weekly responsible research conduct and professional development seminars through the program

Sept 2019 - **Emory Department of Economics Research Course.**

- Jan 2020 ○ 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 would assist Dr. Stephen O'Connell with his research.

Sept 2018 - **Scholarly Inquiry & Research Experience (SIRE) Program** *Research Assistant*.

- Dec 2018
  - 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 and created R markdown documents to organize the important variables and statistical analysis into tables
  - Read and gathered research papers on effectiveness of gender quotas for governing positions and gender gaps on state governments in EBSCO, Jstor and Science Direct to be used in Literature Review
  - Participated in weekly seminars on research skills, attended academic lectures, and learned about the research discipline.

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## Community Involvement

Sept 2019 - **Emory Economics Review** *Co-Editor*.

- April 2020
  - 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

Sept 2017 - **The Emory Wheel** *Senior Staff Writer*.

- Oct 2018
  - Wrote 80 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

Sept 2017 - **Ngambika Emory First-Year Step Team** *Step Dancer & Member*.

- Feb 2018
  - 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

June 2018 - **Let's Get Ready Coach** (*Teacher & Mentor*), New York, NY.

- Aug 2018
  - Taught SAT Math topics and test taking skills and lead discussions about the college application process and shared my own experiences to 12-15 rising high school seniors for three hours twice a week
  - Made lesson plans for each SAT math session and college knowledge discussion
  - Individually texted students asking about their class experience
  - Commented and provided feedback to student's college essays in the Fall/Winter after the program ended

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## Skills

- **Programming:** • Python (Advanced) • R (Intermediate) • Java (Beginner) • L<sup>A</sup>T<sub>E</sub>X (Intermediate) • Shell (Intermediate) • SQL (Beginner)
- **Cloud Computing:** • AWS (Beginner) • Azure (Beginner)
- **Packages:** • Scikit-Learn (Beginner) • NLTK (Beginner) • TensorFlow (Beginner) • Gensim (Beginner) • Tidyverse (Intermediate) • ggplot (Intermediate)
- **Microsoft Office:** • Word (Advanced) • Excel (Advanced) • Powerpoint (Advanced)
- **Languages:** • Spanish (Intermediate) • French (Beginner)