



# Matthew Rossi

Data Scientist

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## EDUCATION

### University of Miami / Coral Gables, FL

AUGUST 2019 – PRESENT

#### Degrees:

*Bachelor of Science in Mathematics*, May 2023

*Bachelor of Science in Computer Science*, May 2023

#### Intended Additional Degree:

*Master of Science in Data Science*, May 2024

GPA: 4.0/4.0

**Honors:** Foote Fellow Honors, Presidential Scholar,  
Benacquisto Scholar, Lead Miami Employment Program,  
President's Honor Roll

## WORK EXPERIENCE

### Systems and Data Engineering Team Intern

#### *Institute for Data Science and Computing*

AUGUST 2021 – PRESENT

- τ Research methods in the scientific literature to apply to an unstructured dataset of cancer pathology reports. Adapt code from papers.
- τ Design and implement data engineering pipelines, employing standard ML and Git workflows.
- τ Preprocess data, apply clustering algorithms, train classification models, generate visualizations.
- τ Prepare and present scientific/technical reports.

### Student Financial Intern

#### *Student Activities Department*

SEPTEMBER 2019 – DECEMBER 2021

- τ Tracked funding approvals and expenditures.
- τ Built budget templates and accounting systems in Excel workbooks.
- τ Assembled reports and data visualizations.
- τ Reduced error rate by redesigning processes for identifying and rectifying discrepancies.
- τ Programmed custom Excel Macros that increased the speed of a weekly data entry process 15-fold.

## SOFT SKILLS

- |                   |                   |
|-------------------|-------------------|
| τ Communication   | τ Self-Direction  |
| τ Public Speaking | τ Leadership      |
| τ Problem-solving | τ Writing/Editing |
| τ Networking      | τ Research        |

## LEADERSHIP EXPERIENCE

### Vice President

#### *The Politicane*

- τ Co-founded UM's undergraduate political magazine. Visit [thepoliticane.org](http://thepoliticane.org)!

### President

#### *Data Analytics Student Association*

### Teaching Assistant

#### *Religion and Sacred Space in the Era of VR & AI*

### Vice President of Communications

#### *Interfraternity Council*

## TECHNICAL SKILLS

**Tools:** Git, vim, VSCode, Jupyter, LaTeX

**Languages:** Python, C, R, Java, VBA, Unix

**Machine Learning:** Data pre-processing, Clustering, Computer Vision, Deep Neural Networks, Natural Language Processing, Classification, Regression

**ML Packages:** PyTorch, Tensorflow/Keras, scikit-learn, numpy, pandas, matplotlib

**Software:** Microsoft Excel

## RELEVANT COURSEWORK

- τ Machine Learning with Applications
- τ Probability and Statistics
- τ Theory of Computing
- τ Numerical Differential Equations
- τ Numerical Linear Algebra
- τ Numerical Analysis and Methods
- τ Computing for Scientists
- τ Data Structures and Algorithm Analysis
- τ Unix & C
- τ Abstract Algebra
- τ Multivariable Calculus
- τ Advanced Calculus

## HOBBIES

- τ Musician of 10+ years (specializing in Piano and Vocal Performance)
- τ Rock Climbing
- τ Personal Fitness
- τ Racquetball
- τ Reading

