

# MATT VARKONY

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📍Rosenstiel School of Earth, Marine, and Atmospheric Science: Key Biscayne, Florida

## EDUCATION

### University of Miami, Dept. of Environmental Science and Policy

*PhD in Environmental Economics (GPA: 3.9/4)*

*GRE: 163Q, 157V, 5W*

- Graduate Student Coastal and Ocean Fellowship (\$25,000)
- Gulf Research Science Policy Fellowship (\$65,000)

*Miami, FL*

*Expected 2024*

### University of Miami

*Masters in Natural Hazards Analysis (GPA - 3.9/4)*

*Bachelor of Science(s): Mathematics and Economics (GPA - 3.4/4)*

*Miami, FL*

*2016 - 2018*

*2012 - 2016*

## WORK AND LEADERSHIP

### Department of Environmental Science and Policy

*PhD Researcher / Teaching Assistant*

- Co-authored [peer-review article](#) for inter-disciplinary climate journal with impact factor 9.116.
- Led lab meetings and assisted in advising students (4) during their graduate school experience.
- Taught R Programming to ~ 8 graduate students in weekly discussion sessions for 1 semester.
- Taught spatial statistics/programming to ~ 25 undergraduate students, 3x per week, for 1 semester.
- Acquired, cleaned, and performed statistical analysis on ( $\geq 10$ ) gigabyte sized data sets using R programming.
- Research assistant for [peer-review article](#) in economics journal with impact factor 3.923.

*Aug 2018 - Current*

*Miami, FL*

### Tampa Bay Regional Planning Council

*National Academies of the Sciences: Gulf Research Program's Science Policy Fellow*

- Led cross-disciplinary research team on \$500,000 JPMorgan Chase Foundation Grant
- Lead author of Resilience and Energy Assessment of Communities and Housing ([REACH](#)) Report
- Presented results from REACH Report to local policy makers at regional conference

*Sep 2021-Aug 2022*

*Tampa Bay, FL*

### University of Miami's Office of Community and Civic Engagement

*Graduate Researcher*

- Led development of [Resilience Policy Toolkit](#) in partial fulfillment of JPMorgan Chase Grant
- Collaborated with a cross-disciplinary team (~ 20 people) to create an interactive map and dashboard identifying climate risk to subsidized housing throughout Miami-Dade County.

*Jan 2020 - Jan 2021*

### Student Led Evaluation and Development (SLED)

*Chair (2019-2020)*

- Led elected group of 5 graduate students to uphold the academic and professional well-being of RSMAS graduate students.
- Designed and conducted surveys to determine the health of the student-mentor relationship throughout the graduate school.
- Reported results and recommendations to the Graduate Academic Committee to improve programmatic success of student-mentor relationship
- Facilitated trainings and events to foster successful student-mentor relationships such as dealing with power dynamics.

*Aug 2018 - May 2020*

## TECHNICAL SKILLS

### Advanced Programming:

R (Data Wrangling, Econometrics, Spatial Analysis), git, latex

### Proficient Programming:

MATLAB, Python, SQL

### Software & Tools:

GIS (ArcPro), Arc StoryMaps, Microsoft Suite, Adobe Suite, Qualtrics

### Languages:

English (Native), Spanish (Proficient)

### Interests:

Tutoring, (International/National) Politics, Golf, Basketball, Reading, My Dog