## William Spagnola

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New York, NY 10037	github.com/wspagnola	william.spagnola@nyu.edu
Experience		
Research Alliance for New York City Schools		New York, NY
Technical Research Analyst	•	July 2019 to present
• Maintain data pipeline and desig	n data structures in preparation for analysis using SG	QL and SAS.
• Designed a regression discontinui Graduation rates.	ty study to analyze the causal effect of Career and T	echnical Education on High School
• Created a Logistic Regression mo	odel to predict drop out risk among New York City p	bublic high school students.
• Developed a survey to evaluate e	ffectiveness of an after-school STEM program for dis	advantaged students.
Tobacco Research Lab		New York, NY
Research Intern		January 2019 to June 2019
• Studied patterns of smoking beha	avior using longitudinal survey data	
• Created interactive visualizations	of smoking patterns across multiple stages in the str	udy
The Rusk Institute of Rehabilitat	ion Medicine	New York, NY
Statistical Consultant		February 2018 to June 2019
-	analysis for a study on the relationship between cyto Association for the Study of Pain	kines and fibromyalgia. Published in
• Collaborated on a study proposal using simulation.	l of the effects of Heart Rate Variability using multi-	level modeling. Validated the design
• Provided statistical consulting for	r research on the effectiveness of exercise and speech	therapy.
New York City Department of Ec	lucation	Bronx, NY
Special Education Teacher		September 2009 to June 2016
• Taught students with autism and	intellectual disabilities in a public special education	high school.
Education		
<b>New York University</b> Master of Science in Applied Statistics Recipient of Western Scholarship	for Social Science Research; GPA: 4.00	New York, NY
<b>Pace University</b> Master of Science in Special Education	2	New York, NY

## Loyola University

B.A. in English Literature with Spanish Minor

## Projects

- Machine Learning Project on 2016 Election Data: Investigated clusters in county-level presidential data using k-means and model-based clustering algorithms
- Interactive Shiny App for COVID19 Data: Created an interactive/up-to-date dashboard of COVID case and death data at the country, state, and county levels
- Gender Dynamics in Data Science Survey Project: Collaborated on a team to create a survey to investigate perceptions of gender and ability in data science.
- NYPD Crime Data Visualization: Won an award from the NYU Statistics Club for creating a data visualization that compared New York City crime rates on Halloween to yearly averages.
- Family Heritage Website: Developed a website on Pennsylvanian German family history for a genealogy group.

## Skills

- R and RShiny
- Python
- SQL

- Tableau
- Stata
- SQL

• Google Apps Script

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Baltimore, MD

- Git
- HTML/CSS