

William Spagnola

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EXPERIENCE

Research Alliance for New York City Schools

New York, NY

Technical Research Analyst

July 2019 to present

- Designed a regression discontinuity study to analyze the causal effect of Career Technical Education on High School Graduation rates.
- Collaborated with a team to develop a survey to evaluate effectiveness of an after-school STEM program for disadvantaged students. Administered the survey via Qualtrics.
- Created a Logistic Regression model to predict drop out risk among New York City public high school students.

Tobacco Research Lab

New York, NY

Research Intern

January 2019 to June 2019

- Studied smoking trajectories patterns using longitudinal survey data
- Created interactive visualizations of smoking patterns across multiple stages in the study

The Rusk Institute of Rehabilitation Medicine

New York, NY

Statistical Consultant

February 2018 to June 2019

- Prepared data visualization and analysis for a study published in *The Journal of the International Association for the Study of Pain* on the relationship between cytokines and Fibromyalgia.
- Collaborated on a study proposal of the effects of Heart Rate Variable using a multi-level modeling. Validated the design using simulation.
- Provided statistical consulting for research on the effectiveness of exercise and speech therapy.

New York City Department of Education

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

New York University

New York, NY

Master of Science in Computer Science; GPA: 4.00
Recipient of Western Scholarship

Pace University

New York, NY

Master of Special Education

Loyola University

Baltimore, MD

B.A. in English Literature with Spanish Minor

PROJECTS

- **Interactive Shiny App of COVID19:** Created an interactive/up-to-date dashboard of COVID case and death data at the level country, state, and county levels
- **Unsupervised Learning Project on 2016 Election Data:** Investigated county-level presidential election trends
- **Family Heritage Website:** Currently developing a website on Pennsylvanian German family history.
- **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.
- **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.

SKILLS

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| • R and RShiny | • Tableau | • Google Apps Script |
| • Python | • Stata | • Git |
| • SQL | • SQL | • HTML/CSS |