William Spagnola

470 Lenox Ave.
New York, NY 10037

https://github.com/wspagnola

wspagnola@nyu.edu
717-683-4039

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 developed 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 Associaton for the Study of Pain* on the relationship between cytokines and Fibromylagia.
- 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 date 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

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