MELISSA NUNEZ

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EDUCATION

Columbia University, Mailman School of Public Health, New York, NY
Master of Science, Biostatistics   May 2019

Adelphi University, Garden City, NY
Bachelor of Science, Mathematics   May 2017

PROFESSIONAL EXPERIENCE

New York City Council, New York, NY   October 2019 – Present
Data Scientist
- Collaborate with policy analysts and lawyers to conduct oversight of city agencies, influence policy making through statistical analysis, and incorporate data-driven approaches into bill drafting
- Contributed to the release of a pay equity report analyzing occupational segregation within the city's workforce that resulted in the recommendation of 6 bills addressing pay transparency and workforce diversity
- Use open data to investigate pressing problems in New York City such as vacant storefronts, gun violence, and the impact of Covid-19

Research Foundation for Mental Hygiene, New York, NY   April 2018 – September 2019
Biostatistician   May 2019 – September 2019
- Applied mixed-effect models to identify differences between treatments groups for clinical trials
- Analyzed multiple sclerosis data to help predict cognitive impairment in patients

Research Assistant   April 2018 – April 2019
- Explored, analyzed, and modeled brain imaging data using statistical methods such as t-tests, ANOVA, and k-means clustering
- Presented updates on research and findings to supervisor and colleagues during weekly journal club meetings

Department of Youth and Community Development, New York, NY   Summer 2016
Planning Unit Intern
- Researched, collected, and organized health, employment, and housing related data for New York City's 59 community districts as part of the department's needs assessment
- Condensed data for each community district into a visually-engaging, two-page "info-graphic" presented at neighborhood gatherings to inform citizens of neighborhood needs
- Created and presented PowerPoint presentation about summer experience and intern project to various units in the department

ADDITIONAL EXPERIENCE

Columbia University, New York, NY   September 2018 – December 2018
Teaching Assistant
- Selected to be a teaching assistant for the Relational Databases and SQL Programming for Research and Data Science course
- Managed 30 students in a flipped classroom setting by leading group discussions, assisting with in-class assignments, explaining key concepts, and clarifying questions
- Provided additional support with assignments and questions during weekly office hour

Collegiate Science and Technology Entry Program, Hempstead, NY   September 2016 – May 2017
Academic Coach
- Organized and participated in weekly meetings with two undergraduate students to assist in strengthening skills in time management, goal setting, and organization

SKILLS

Computer: Proficient in R, SAS, SQL; Familiar with Python (NumPy, Pandas, Matplotlib)
Language: Oral and written knowledge of advanced Spanish