

# Carlyle Morgan

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## SKILLS

- R
- Python
- SQL Management and Querying
- Enterprise Risk Management
- RSA Archer GRC Suite
- Agile software development
- Tableau, Power BI
- Statistical Inference and Modeling

## EDUCATION

### Columbia University in the City of New York

*Bachelor of Arts, Statistics and Mathematics, Economics; GPA: 3.56*

**New York, NY**

Exp. May 2023

### Myers Park High School

*High School Diploma; GPA: 3.96; SAT: 1560 (790 Math, 760 R and W), ACT: 36*

**Charlotte, NC**

Jun. 2019

International Baccalaureate Diploma Recipient; National Merit Scholar Finalist

## RELEVANT COURSEWORK

Probability Theory(Graduate Level), Calculus-Based Statistics, Proof-based Multivariate Calculus and Linear Algebra, Machine Learning in R and Python, Introduction to Tableau

## WORK EXPERIENCE

### Washington Metro Area Transit Authority

**Washington, DC**

*Intern in the Office of Management Audits, Risk and Compliance*

Jun. 2020 –

- ❖ Developed applications in RSA Archer to help improve internal auditing and risk control for the second-largest rapid transit system in the U.S, a recipient of billions of dollars of government funding annually
- ❖ Worked in a client-facing role to help build Audit and Enterprise Risk Management software from the ground up using an agile methodology, completing unit testing and resolving defects in IBM's Jazz Suite
- ❖ Helped external consultants and contractors advise the Risk and Audit Department on its long-term software development goals by creating presentations and visuals in Microsoft Office for use in meetings

### Vera Institute for Justice – The Guardianship Project

**New York, NY**

*Data and Policy Intern*

Jan. 2020 – April 2020

- ❖ Wrote custom R scripts using regex and other text-mining packages to clean and combine existing client data that had frequently missing, misspelled, or outdated information
- ❖ Used R's leaflet package, opensource GIS shapefiles, and client address data geo-encoded through the Google Maps API to create choroplethic maps for use by management and potential donors

### Columbia University Economics Department

**New York, NY**

*Research Assistant*

Jan. 2020 – May 2020

- ❖ Studied how state level enforcement of non-compete agreements affects wage growth
- ❖ Compiled and cleaned datasets from the U.S Census Bureau and other sources in R for regression analysis

### Dan McCready for Congress

**Charlotte, NC**

*Field Intern*

May 2019 – Aug. 2019

- ❖ Contacted and persuaded voters on topics ranging from immigration to reproductive health using canvassing and phone banking, and trained volunteers of all ages to do likewise.
- ❖ Created, managed and queried a Microsoft SQL server to host and report on millions of observations of historical campaign finance data. Aggregated and visualized data using Tableau.

### Mathnasium LLC

**Charlotte, NC**

*Instructor*

Nov. 2016 – Jun. 2019

- ❖ Taught 100+ different students ages 5-19. Recognized weaknesses in clients' math knowledge and worked to adjust and teach support plans to correct gaps.

## EXTRACURRICULARS

### Columbia College Student Council

**New York, NY**

*Finance Committee Member*

Sept. 2019 –

- ❖ Developed best-practices for the allocation of over one million dollars to the 500+ Columbia University student organizations by creating policies designed to curb misspending and encourage and standardize accounting procedures.

### Journal of Politics and Society

**New York, NY**

*Associate Editor*

Sept. 2019 –

- ❖ Provided structural and copy edits to papers selected for publication
- ❖ Assisted in the selection of papers to be published by the journal