Bethan Cordone

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▁▂▃ public.tableau.com/app/profile/bethan.cordone

I am a recent graduate from Columbia Engineering with experience in Applied Physics and Applied Statistics. I have channeled my innate passion for problem solving into honing the skills to extract value from data.

SKILLS

- **R**
- **Tableau**
- **IBM Cognos**
- **SQL** (Views, Joins, Temp Tables, CTE, Stored Procedures)
- **Python** (Pandas, NumPy, Requests, Beautiful Soup, Matplotlib, Seaborn, Plotly, Dash)
- **Excel** (Sort/Filter, Pivot Tables, Charts, Functions)

EXPERIENCE

Data Analytics Projects

Boston Energy Metrics (Fall 2022)
- Cleaned data in Excel and SQL and created dashboard in Tableau to identify property types and locations of high consumption.

Legislative Keyword Trends with California Insurance Rates (Spring 2022)
- Performed k means and hierarchical clustering in R on legislative bills to determine trends with insurance rates, performed sentiment analysis on bill text.

NYPD Retention Rates (Spring 2022)
- Utilized R to predict turnover rate using NYC municipal workers and crime datasets.

Bard College at Simon's Rock

Undergraduate Thesis (Academic Year 2021/2022)
- Cleaned and standardized output data from different climate models and created regional categories for the geospatial data using R.
- Created global and regional map visualizations of temperature and precipitation differences.
- Calculated significant differences between climate scenarios using t test.
- Utilized results of analysis to determine accuracy of geoengineering models and created in-depth 19,000-word report.

Research Assistant (Summer 2020)
- Found new data sources for chromosome database that extended the data range by 33%.
- Used excel and R for regression analysis using Siegel's technique of repeated medians on chromosome data.
- Conducted research to determine possible physical explanations for trends discovered.
- Contributor for published paper n Frontier with Professor Eric M Kramer on chromosome coiling mechanisms.

Department of Conservation and Recreation Massachusetts

Manager, Fitchburg State Pool (Summer 2022)
- Started as a Lifeguard (Summer 2018 & 2019) and was promoted to Assistant Manager (Summer 2021) and Manager (Summer 2022).
- Senior onsite staff during shift responsible for patron safety, compliance record keeping, pool maintenance including chemical tests and recording, and staff management.

EDUCATION

Columbia University in the City of New York (May 2022)

- Bachelor of Science in **Applied Physics** with Minor in **Applied Statistics**, **GPA 3.9**
- Completed coursework in Data Mining, Intro to Data Science, Statistical Machine Learning, Numerical Methods, Statistical Computation, Categorical Analysis, Linear Regression Analysis, Probability and Statistics, Partial Differential Equations, Linear Algebra, Quantum Computation, and Economics
- Transfer from Bard College at Simon's Rock and Study Abroad at Heriot-Watt University in Edinburgh, Scotland