Zachary D. Alexander

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EDUCATION

- M.S. in Data Science | CUNY School of Professional Studies | August 2019 - Present (expected graduation May 2021)
- B.A. in Biology | St. Mary's College of Maryland, St. Mary's City, MD | May 2012

RELEVANT COURSEWORK

- Advanced Programming Techniques in Python, CUNY School of Professional Studies | Spring 2020
- Fundamentals of Computational Mathematics, CUNY School of Professional Studies | Spring 2020
- Statistics and Probability for Data Analytics, CUNY School of Professional Studies | Fall 2019

RELEVANT DATA SCIENCE EXPERIENCE

Center for Court Innovation, New York, NY

Senior Research and Data Associate | April 2019 – Present

- Design and conduct special research projects for New York City's first Felony Court Alternatives to Incarceration (ATI) Program to evaluate program and policy success using inferential statistics and qualitative coding techniques.
- Create and present data visualizations to justice-system stakeholders and CCI operating project staff using Tableau.
- Develop R scripts and automation techniques to track New York City Housing Authority (NYCHA) repair compliance for more than 1,500 housing court cases throughout East Harlem.
- Conduct N-gram analyses of case manager notes to identify trends in interactions with defendants and tenants.
- Oversee regular data extractions (SQL), coding, cleaning, and analysis of data from large databases.
- Serve as Principle Investigator on an ongoing study of 150+ Brooklyn Criminal Court defendants' perceptions of the criminal justice system to improve the misdemeanor arraignment process. Presented initial findings at the American Society of Criminology Conference (November 2019).
- Supervise and train a Junior Research and Data Associate on the Data Analytics and Applied Research Team to strengthen data capacity at Midtown Community Court and Harlem Community Justice Center.
- Train members of the Data Analytics and Applied Research team on key concepts of SQL and R to streamline data extraction, manipulation, cleaning, and analysis.

Research and Data Associate | April 2018 – April 2019

- Produced statistical reports on program volume, service linkages, and compliance rates for diversion and ATI programs.
- Built data capacity at Midtown Community Court and Harlem Community Justice Center via collaboration with senior staff.
- Designed and conducted special research projects involving both qualitative and quantitative methodologies in collaboration with senior research and program staff focused on procedural justice and community engagement.

Center for Effective Philanthropy (CEP), Cambridge, MA

Senior Research Analyst | August 2017 - April 2018

- Worked within SPSS, SQL, and R to analyze large-scale quantitative and qualitative datasets.
- Produced a wide range of data visualizations for internal and external presentations and reports.
- Led SQL trainings for internal staff on query syntax, transactions, and stored procedures.
- Used Python, SQL, and Microsoft Excel to clean and combine data in CEP's robust dataset of over 400,000 individuals.

Research Analyst | October 2015 - August 2017

- Worked with 18 individual funders with assets of $5M or more to help measure grantee feedback. Produced reports, communicated directly with clients, and developed presentations for foundation boards, CEOs, and staff.

City Year Boston, Boston, MA

School-Based Data Coordinator (Americorps VISTA program) | July 2013 - July 2014

- Collaborated with Boston Public School administration officials to identify and evaluate key trends in systems data across ten district schools with the aim to lower high school dropout rates.
- Provided and communicated data to multiple stakeholders at City Year Boston and the Boston Public School District.