

Samuel E DeWitt

SENIOR DATA SCIENTIST

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Summary

Senior Data Scientist with 10+ years of experience using data to drive strategic decisions, optimize processes, and inform policy. Skilled in transforming complex datasets into actionable insights through advanced analytics, predictive modeling, and compelling data storytelling. Proven track record managing multi-million-dollar research initiatives, improving analytical efficiency, and collaborating across teams. Expert in causal inference, experimental design, and statistical modeling using **R, Python, Stata, and SQL**. Strong communicator who translates technical findings into clear, impactful strategies for stakeholders at all levels.

Experience

Senior Researcher | American Institutes for Research | July 2023 — Present

- Led quantitative analysis and insights generation for over \$6 million in research initiatives, ensuring 100% compliance with federal and philanthropic funding requirements.
- Presented analytics-backed insights to stakeholders, driving 30% improvement in decision-making efficiency.
- Partnered with internal and external teams to streamline data processes, improve reporting efficiency, and drive client engagement.

Professor | University of North Carolina at Charlotte | July 2016 – July 2023

- Led 6+ large-scale quantitative research projects, employing experimental methodologies to evaluate the impact of public policy decisions on affected communities/programs.
- Engaged multi-sector stakeholders across 10+ national and regional conferences, influencing policy discussions through data-backed presentations.
- Authored 12 peer-reviewed publications and technical reports, informing decision-making for 20+ government agencies, NGOs, and research institutions.

Research Assistant | Rutgers University - Newark | July 2011 – July 2016

- Partnered with multiple state agencies to process and transform over 10M+ rows of unstructured administrative data into structured datasets, enhancing analytical efficiency by over 50%.
- Implemented advanced statistical models to identify service trends and manage risk for two state agencies with 20,000+ total clients, optimizing resource allocation and improving program effectiveness by 25%.
- Mentored 25+ Ph.D. students in advanced statistical techniques and data management, improving research efficiency and analytical rigor.

Education

Rutgers University - Newark, Social Sciences Ph.D. (2016)

Concentrated Coursework: Causal Inference, Quantitative Analytics, Statistical Programming, Experimental Design

Skills and Abilities

- Advanced Data Analysis & Statistical Modeling (Stata, R, Excel, Python)
- Specialization in Causal Inference (Difference-in-differences, Synthetic controls, matching and weighting)
- Experimental Design (A/B Testing, MVT) and Analysis
- Data Preparation & Transformation (R, Stata, SQL)
- Data Visualization & Storytelling (R, Tableau)
- Effectively Communicating Scientific Findings to Broad Audiences
- Team Leadership & Cross-Functional Collaboration
- Government Clearances (Census Bureau – Special Sworn Status; DOJ – Public Trust Position)