Breanna E. Green

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Education

Cornell University, Ithaca, New York
PhD Student in Information Science (**Expected Graduation:** May 2025) | Sloan & GEM Scholar | Siegel Research Fellow 2023-2024

Cornell University, Ithaca, New York
Master of Science: Information Science (August 2023)
- *Relevant Courses*: *(as of Spring 2023)*: Behavior & Information Technology, Applied Time Series Analysis, Text Mining History & Literature, Data Science for Social Good, Text and Networks, NLP and Social Interaction

The University of Texas at San Antonio, San Antonio, Texas
Master of Science: Psychology (August 2017)
- *Relevant Courses*: Research Design, Psychological Measurement, Inferential Statistics, Correlation and Regression Analysis, Human Cognition

Prairie View A&M University, Prairie View, Texas
Bachelor of Psychology: Psychology **(**May 2014**) |** The Regents' Student Merit Scholarship

Technical Skills

Programming: Python, R, PL/SQL
Technological Toolbox: Anaconda, APIs, Github, SPSS, R Studio, Tableau, Qualtrics, CVENT, SurveyMonkey, Excel, PowerBI & DAX, SAP HANA
Empirical Methods: Natural Language Processing (NLP), Quantitative & Qualitative Analysis, Experimental Research Design, Survey Item Development

Projects and Activities

Black Excellence Research Symposium Planning Committee Leader
- Lead organizer of the inaugural event (Mar. 2022)

Working Group – Global Internet Forum to Counter Terrorism
- In Progress: Technical Approaches: Tooling, Algorithms & Artificial Intelligence

Understanding Hate Speech from Twitter to Gab (Python & R)
- In Progress: Research cross-examining the sentiment of posts from approx. 10,000 users migrating from Twitter to Gab

Analyzing Responses to Political Violence - YouTube Videos (Python & R)
- In Progress: Research identifying subgroups in approx. 180,000 responses to the Black Lives Matter Protests versus Jan. 6th Insurrection

Academic Excellence Chair, Black Graduate and Professional Student Association (BGPSA)
- Host weekly Academic Work Sessions totaling approx. 100 students

Graduate Representative, National Society of Black Engineers (NSBE)
- Graduate mentor for 80+ URM undergraduate STEM major students

Multicultural Academic Council (MAC) Mentoring
- Peer mentor supporting the success and professional development of first-year doctoral students

Work Experience

Teach Assistantships – Ithaca, NY
    Fall 2023 – INFO 3350: Text Mining Literature & History
    Spring 2024 – INFO 2950: Introduction to Data Science
- Designed and implemented course discussion materials
- Held weekly discussion sections and office hours (plus additional one-on-one meetings)
- Utilized Canvas, Ed Discussion, Github, and CMS for grading and course management

People Analytics & Reporting (HR), Regeneron Pharmaceuticals, Inc. – Tarrytown, NY
    Fall 2023 (October to December) – PhD Intern
- Support People Analytics and Reporting staff in administrative tasks (automated online nested project folders)
- Automated monthly and annual deliverables -- code, data, and .pptx decks
- Developed preliminary Python packages

Siegel Public Interest Tech Impact Fellowship, Block Party – New York, NY
    Summer 2023 (May to August) – PhD PiTech Fellow
- Designed and implemented an improved abstractive summarization process into the current Block Party pipeline
- Conducted stakeholder interviews

People Analytics & Reporting (HR), Regeneron Pharmaceuticals, Inc. – Tarrytown, NY
    Summer 2023 (May to August) – PhD Intern
- Modelled retirement and turnover projections across the company
- Conducted quantitative and qualitative text analysis on employee survey comments in support of diversity, equity, and inclusion efforts.
- Facilitated the use and implementation of NLP methods to develop a skills ontology and database across the company

GEM Employer Fellow, LAM Research – Remote
    Summer 2022 (May to July) – Power BI Analytics Intern
- Transitioned Global Part KPI application from Qlik to PowerBI using DAX and DirectQuery from SAP HANA
- Facilitated team onboarding for Databricks – drafted project design and established internal contact

Liberty Mutual Data Science, Boston, Massachusetts
    Summer 2022 (June to August) – Data Science Intern
- Improved the natural language processing (NLP) resume skills extraction process for talent analytics
- Utilized SpaCy PhraseMatcher, NLTK, Word Embeddings and Cosine Similarity

Tarrant County College, Fort Worth, Texas
    2017 to 2020 – Research Analyst, Office of Institutional Research
- Data analysis and interpretation: Created ad hoc reports – facilitated custom client requests
- Survey administrator and collaboration assistant – includes preparing and disseminating district-wide

surveys using CVENT
- Presented research findings to internal and external clients
- Lead analyst for TCC Cyber Security Task Force and S.T.E.M. council – providing bi-weekly or monthly updates to shifting demographic data and growth analyses
- Served on the Institutional Review Board (IRB)

Publications & Working Papers

Wainwright, K., **Green, B. E.,** & Romanowich, P. (2018). The Relationship Between Delay and Social Discounting, and Body Mass Index in University Students. The Psychological Record, 68(4), 441-449.

Working Papers

Green, Breanna E., Will Hobbs, Pedro L. Rodriguez, Arthur Spirling, and Brandon M. Stewart. 2024. "Measuring Distances in High Dimensional Spaces: Why Average Group Vector Comparisons Exhibit Bias, and What to Do About It." SocArXiv. January 12.

Anderson, Rajen A., Benjamin C. Ruisch, **Breanna E. Green,** and Amy R. Krosch. 2024. "Why We Hate, Left and Right: The Causes of Affective Polarization Differ between Liberals and Conservatives".

Omapang, Aspen K.B., **Breanna E. Green,** Chao Yu, Roxana Mika Muenster, and Drew B. Margolin. 2023. "Time to Politicization: The Emergence and Effects of Politics on Science YouTube Videos".

Green, Breanna E. and Will Hobbs. 2023. "How Polarized are Online Conversations about Childhood?"

Awards & Additional Skills

Awards:
2023
- Siegel Research Fellow – 2023-2024
- Siegel Public Interest Tech Impact Fellowship

2022
- Exemplary Service Award- Early Career Student
- The Robert Mozia Graduate Student Distinguished Service Award
- Sloan Mini-Grant Award Winner – $10,000
- GEM Employer Fellowship

2020
- Sloan Scholar, Alfred P. Sloan Foundation's Minority Ph.D. (MPHD) Program – Grant: G-2019-11435.

Languages: Mandarin Chinese (Elementary); Middlebury Summer Language Institute (2011), Study Abroad – Xi'An International Studies University (2012), National Taiwan Normal University (2015)

Personal Interests: Service Learning - Accra, Ghana (2014); Mentor for Master of Teaching Institute – Research Design and Methodology (2017-2020)