

ALLISON M. TOWEY

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EDUCATION

The University of Chicago — *Master of Arts in Computational Social Science*

Chicago, Illinois | Sept 2021 – Jun 2023 | GPA: 4.00/4.00

The University of Notre Dame — *Bachelor of Arts in Political Science*

Notre Dame, Indiana | Aug 2015 – May 2019 Magna cum laude, Phi Beta Kappa | GPA: 3.91/4.00

TECHNICAL PROFICIENCIES

Python, R, SQL, Stata, Tableau (Tableau Desktop Specialist Certified 2024), ArcGIS, D3.js, HTML/CSS, JavaScript, Vue.js, SciKit-Learn, TensorFlow, PyTorch

WORK EXPERIENCE

Presidential Management Fellow & Data Scientist

United States Agency for International Development (USAID) | Aug 2024 – Present

- Independently designed, developed, and maintains [visiblespectrum](#), an R package that streamlines the extraction and download of sub-national population-level HIV estimates from the UNAIDS NAOMI Spectrum tool, enabling efficient data retrieval for programmatic decision-making.
- Leads predictive analytics research evaluating antiretroviral regimens' impact on children living with HIV in Uganda and Kenya, focusing on BMI and stunting, to be published in 2025.
- Created dynamic [programmatic visualizations](#) for 2025 Country Operational Plan reports processing sub-national measurement, evaluation, and reporting data across key health indicators, including viral load coverage and suppression and preventative care to guide data-driven budget decisions in 25+ countries.

Presidential Management Fellow & Data Scientist

National Oceanic and Atmospheric Administration (NOAA) | Sept 2023 – Aug 2024

- Led the analysis and visualization of NOAA's Federal Employee Viewpoint Survey, developing Tableau dashboards to communicate survey findings to leadership.
- Designed, developed, and maintained four user-friendly, widely-used Tableau dashboards that monitor employee attrition, diversity metrics, annual survey data, and workforce profiles.
- Designed geospatial visualizations using ArcGIS to assess community vulnerability in the U.S. Virgin Islands, ensuring effective data storytelling for diverse audiences.

Policy Analyst, Legislative Data

Curriculum Associates | Oct 2020 – Sept 2023

- Conducted in-depth research on educational legislation and political landscapes across all 50 states, presenting findings, including insights into recent elections, to senior leadership.
- Collaborated with subject matter experts to analyze and communicate legislative trends, identifying implications for school districts and aligning recommendations with company priorities.

ADDITIONAL PROJECTS

- Data Visualization Portfolio (2023)**
Demonstrated principles of effective data visualization with projects on alcohol consumption, transportation trends during COVID-19, and safe drinking water access.
- Women in Politics and Misogynistic Twitter Mentions (2022)**
Led a project scraping and analyzing 400K+ tweets targeting female politicians using NLP techniques.
- Causal Inference with Machine Learning Python Tutorials (2023-Present)**
Published tutorials on applying machine learning to causal inference for Python users.