

# Dan Bernstein

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## Education

**The George Washington University, B.S. Chemistry, *summa cum laude***

2017

Honors Thesis: *Potential Benefits of Implementing Placebo Controlled Dose Reduction in Psoriasis Treatment*

- Analyzed drug expenditure data from Medical Expenditure Panel Survey (Department of Health and Human Services) in R and SAS to estimate individual and cumulative impact of novel psoriasis treatment regimen
- Foreign experience in United Kingdom (NSF-funded research fellowship), Morocco (intensive advanced Arabic studies), and Ireland (semester abroad)

## Experience

### Research Analyst II

April 2019-Present

Legal Services Corporation, Office of Data Governance and Analysis

Washington, DC

- Web scrape state court record and docket information using rvest, httr, and RSelenium to create the largest publicly available U.S. civil court dataset
- Develop accessible data formats for publicly available civil court data to advance LSC's open data strategy
- Analyze demographic, civil legal aid, and geospatial data to detect patterns in civil legal aid services for low-income individuals and communicate results to legal aid programs and internal stakeholders
- Lead the development of automated report generation workflow in rMarkdown to reduce time required to produce annual reports

### Science Policy Fellow

July 2017-April 2019

Science & Technology Policy Institute

Washington, DC

- Apply regression and random forest algorithms to survey data in R to evaluate STEM scholarship program
- Automate text extraction from PDF documents to decrease data collection time from two months to one week
- Analyze and visualize geospatial data in R and QGIS to inform Federal programmatic and budgetary decision-making for R&D collaboration
- Design and conduct mixed methods data collection including large-scale surveys, site visits, focus groups, and structured interviews
- Conduct literature reviews and facilitate expert interviews on research gaps in emerging drinking water contaminants and geothermal energy to inform the development of Federal roadmaps

### Research Intern

January-May 2017

The Brookings Institution, Center for Technology Innovation

Washington, DC

- Coauthored a 50-page report ranking 17 global cities on 24 indicators of safe city innovation, including digital infrastructure, use of data analytics, and community engagement
- Contributed to 3 blog posts published on TechTank discussing biotechnology regulations, experimental drug programs, and governance for geoengineering and gene drive technologies

## Selection of Publications

McKittrick, A., Abrahams, L., Clavin, C., Rozansky, R., **Bernstein, D.** "Frontier Observatory for Research in Geothermal Energy: A Roadmap." IDA Science & Technology Policy Institute. 2019.

Balakrishnan, A., Acheson-Field, H., Buenconsejo, R., Mary, J., Summers, C., Vitkin, S., Pena, V., **Bernstein, D.**, Lane, S., Belanich, J., "Science, Mathematics & Research for Transformation (SMART) Outcome Evaluation Report." IDA Science & Technology Policy Institute. 2018.

**Bernstein, D.**, Guerrero, K.M., Harmon, B.R., and Rieckts, B.Q. "Polar Heavy Airlift: An Analysis of Alternatives." IDA Science & Technology Policy Institute. 2018.

West, D.M., **Bernstein, D.** "Benefits and Best Practices of Safe City Innovation." The Brookings Institution. 2017.

## Honors

Fulbright Scholarship Finalist (declined)

2017

Second place in Politics & Economics division at GW research conference

2017

NSF Virtual Institute for C-H Functionalization Fellowship, University of Cambridge

2016

## Technical Skills

R, SAS, SQL, QGIS, Python, VBA, JavaScript, CSS/HTML, NVivo, INSPIRE