Dan Bernstein

✉ danbernstein94@gmail.com   danbernstein   🌐 danbernstein.netlify.com

Experience

Science Policy Fellow **July 2017-Present**
Science & Technology Policy Institute Washington, DC

- Research technological and policy topics to inform the development of Federal strategies and roadmaps in areas including emerging water contaminants, geothermal energy, and technology superiority
- Apply regression and machine learning algorithms to survey data to evaluate STEM education program effectiveness
- Analyze and visualize geospatial data in R and QGIS to inform Federal programmatic and budgetary decision-making for R&D collaboration
- Plan and execute workshops for approximately 75-100 Federal employees to discuss best practices in leveraging data analytics and developing public-private partnerships to enhance R&D collaboration

Research Intern **January-May 2017**
The Brookings Institution, Center for Technology Innovation Washington, DC

- Coauthored a 50-page report on benefits and best practices of safe city innovation, ranking 17 global cities on efforts to leverage new digital technologies and data analytics to promote public safety
- Contributed to 3 blog posts published on TechTank discussing biotechnology regulations, experimental drug programs, and governance for geoengineering and gene drive technologies

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
- Awarded 2nd place in Politics & Economics division at undergraduate research conference

Foreign experience in United Kingdom (NSF-funded research fellowship), Morocco (intensive advanced Arabic studies), and Ireland (semester abroad)

Selection of Personal Projects

Forecasting the Impacts of Climate Change on Public Health

- Projected atmospheric ozone concentrations, population growth, and mortality rates to 2050-2055 in R to estimate attributable death due to climate and emission change

DC Bikelane Crash Analysis

- Analyzed geospatial crash data in R and QGIS to determine whether bike lanes lead to reductions in the number and severity of cyclist injuries

Technical Skills

R, JavaScript, SAS, SQL, QGIS, CSS/HTML

Publications

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

Honors

Fulbright Scholarship Finalist (declined) 2017
2nd place in Politics & Economics division at GW research conference 2017
Phi Beta Kappa, National Honors Society 2016
NSF Virtual Institute for C-H Functionalization Fellowship, University of Cambridge 2016