

David A. Gelman, Ph.D.

Data Scientist

New York, NY

☎ (301) 802-3844 | ✉ david.a.gelman@gmail.com | 🏠 DavidAGelman.com | 📱 DavidAGelman | 🌐 davidagelman

Experience

Data Scientist

New York, NY

PIVOTAL

January 2018 - Present

- Developed and deployed machine learning solution for the detection of anomalous customer behavior for a major American bank, supplanting the leading industry solution.
- Worked in the Hadoop/Hive/Spark data stack.

Data Science Fellow

New York, NY

GENERAL ASSEMBLY

August 2017 - December 2017

- Extensive work in SQL and Python, including data science tools such as Numpy, Pandas, Sklearn, Scipy, and Statsmodels.
- Data visualization via Matplotlib and Seaborn.
- Additional projects involved data extraction, cleaning, model building, and analysis.
- Select projects on nested lists and dictionaries, predictive modeling using messy data, using NLP to predict authorship, and utilizing NLP to generate insights about comments on a popular web forum.

Ph.D. Student

Rochester, NY

UNIVERSITY OF ROCHESTER

Aug. 2012 - June 2017

- Successfully defended my dissertation “Three Essays on Floor Debate in American Deliberative Bodies.”
- Used statistical models to test hypotheses about political institutions and behavior.
- Utilized spatial scaling techniques to demonstrate robustness of applied methods.
- Used R to create dataset of all congressional speeches from 1873-2011.
- Co-authored R code to transform and clean an existing dataset into more readily usable state.
- Published in peer reviewed Political Science journals.
- Award of “Best Graduate Student Paper in Law and Courts” in 2017 from the American Political Science Association.
- Presented work in multiple Political Science conferences including annual meetings of APSA, MPSA, and SPSA.

Teaching Assistant in Department of Political Science

Rochester, NY

UNIVERSITY OF ROCHESTER

May 2013 - June 2017

- Led weekly review sessions for Ph.D. students in political philosophy.
- Taught American politics and comparative politics courses to undergraduate students.

Project Manager

Cambridge, MA

MOBIVOX PROJECT MANAGER

Jan. 2008 - May 2008

- Supported business development manager by researcher partnerships to grow our IVR VOIP service.
- Supported marketing manager by writing and editing material for publication.
- Developed and tested new products to bring to market.
- Engaged in special research assignments for marketing, business development, and product development directors.

Education

University of Rochester

Rochester, NY

PH.D., M.A. IN POLITICAL SCIENCE

Aug. 2012 - June 2017

University of Georgia

Athens, GA

M.A. IN POLITICAL SCIENCE

Aug. 2010 - May 2012

Colgate University

Hamilton, NY

B.A. IN POLITICAL SCIENCE AND RELIGIOUS STUDIES

Aug. 2003 - May 2007

Skills

Languages

Python, R, Spark (PySpark), SQL, LaTeX

Tools

Forecasting, Modeling, Statistical Analysis, and Natural Language Processing

Applications

Jupyter Notebook, Git, DBeaver, MS Office (Advanced Excel)