

Daniel Argyle, Ph.D.

Research Scientist

241 E. 4200 N.

Provo, UT 84604

(805) 403-0767

danielargyle@gmail.com

SKILLS

I am a data scientist with extensive expertise in multiple areas of machine learning including Natural Language Processing, Network Analysis, and Statistical Inference. I love creative problem solving and analyzing big data to extract actionable insights.

EXPERIENCE

- MAY 2016 - PRESENT **Senior Research Scientist** - *FiscalNote, Washington DC*
- Led product development and implementation of a legislative risk index for businesses that was licensed to a partner for distribution
 - Applied large scale text analysis to determine legislative relevance and likely business impact with a high degree of accuracy
 - Utilized an ensemble of machine learning algorithms, including neural networks, word embeddings, logistic regression, and custom estimators
 - Designed and populated PostgreSQL databases for use in production
 - Made key contributions to a knowledge graph over legal documents, individuals, and entities
 - Developed a set of tools to leverage client's contact networks and discover optimal government relations engagement strategies
 - Applications included citation extraction, stakeholder mapping, and topic labelling
 - Collaborated with team members to validate and extend results based on client feedback
- MAY 2015 - MAY 2016 **Data Scientist** - *FiscalNote, Washington DC*
- Built and deployed a system, including original statistical techniques, to forecast legislative votes with state of the art accuracy across all 50 states and the federal government
 - Generated, deployed, and maintained in production network-based descriptive statistics and insights about legislators and legislation
- JULY 2014 - MAY 2015 **Research Economist** - *Antitrust Division, U.S. Department of Justice, Washington D.C.*
- Supported investigations into mergers and antitrust violations in a wide variety of industries including telecoms, oil and gas, and financial services
 - Quickly extracted insight from a wide variety of large data sources while meeting strict investigation deadlines

EDUCATION

- 2014 **Ph.D. Economics** - *University of California, Santa Barbara, CA*
- Dissertation: Essays on Social Influences in Economic Decision Making
 - Fields: Econometrics, Labor Economics
- 2010 **M.A. Economics** - *University of California, Santa Barbara, CA*
- 2009 **B.A. Economics with University Honors** - *Brigham Young University, Provo, UT*
- Honors Thesis: Student Achievement in Charter Schools: A Cross-State Analysis

TECHNICAL

Daily use: Python, pandas, scipy, scikit-learn, SQL, Git/GitHub, Unix/Linux, AWS
Also use: R, Stata, MongoDB, Keras, Tensorflow, MATLAB, LaTeX, RMarkdown

MISCELLANEOUS

Languages: English (Native), Portuguese (Fluent)
University teaching: Econometrics (UCSB/BYU); Intermediate Microeconomics (UCSB); Principles of Economics (BYU)