NATHAN THOMPSON

SUMMARY

Data Scientist with a background in politics and public policy. M.P.A specializing in quantitative research methods and economic inequality. Experience in research, statistical programming and analysis, and writing/editing.

- ✉ thenatethompson@gmail.com
- 📞 503-473-9619
- 📍 Portland OR
- 🐦 thenatethompson
- in thenatethompson
- ⌂ Nathan-Thompson

EDUCATION

The London School of Economics and Political Science
M.P.A Public and Social Policy 2015
Graduated with Merit
Editor-in-Chief of LSE's policy journal

Sarah Lawrence College
B.A. Social Sciences 2013
Student Senate Chair

University of Oxford
Study Abroad 2011

SKILLS

PROFICIENT IN	FAMILIAR WITH
Python	Image Processing
Stata	SQL
R	Spark/PySpark
Supervised & Unsupervised Learning	Hadoop
Natural Language Processing	D3.js
	RShiny
Web Scraping	Amazon Web Services
GIS & Mapping	Relational Databases
Econometrics & Policy Analysis	JavaScript
Writing/Editing	

ACTIVITIES & AWARDS

USSF 'E' Coaching License

HVMAC All-Conference Tennis & Soccer Teams

Speaker, 2013 Human Rights Campaign Portland Gala

Alice Stone Ilchman Scholar Athlete Award

PROJECTS

CELLULAR IMAGE PROCESSING
Built a program to count, segment, and cluster images of cells under a microscope.

TEXT SECURITY CLASSIFICATION
Trained a naive Bayes classifier to predict the security status of unlabeled text documents. Used different tokenization and entity extraction approaches to improve the accuracy and recall of the model. Managed data with a PostgreSQL database.

HEART DISEASE RISK PREDICTION
Predicted the heart disease status of someone experiencing chest pain. Used a voting classifier to ensemble several models and built an interactive demo with D3.

MASTER'S DISSERTATION
Examined patterns of state and local income inequality using 9 years of Census microdata. Paired the data with NBER's TAXSIM calculator to generate pre- and post-tax estimates of inequality. Mapped the results using GIS and an RShiny dashboard.

BILL & MELINDA GATES FOUNDATION CAPSTONE PROJECT
Performed a market segmentation analysis using consumer financial behavior data from Bangladesh and Tanzania. Designed a randomized trial to test women's adoption of digital financial services.

EXPERIENCE

SKILLS FUND · Data Scientist (Contract) — 2016
Assessed the student outcome metrics and prepared data visualizations and reports for 15 coding bootcamps. Provided recommendations for industry standards for data collection and reporting.

METIS · Data Scientist — 2016
Learned and practiced the full data science project cycle from scoping and data acquisition to formally presenting results. Completed five projects during the 12 week immersive program, working both individually and in small groups.

CITY OF PORTLAND · City Budget Office Aide — 2014
Worked with Portland City Economist Josh Harwood to prepare data for a report measuring Portland against the 50 largest American cities, titled Portland in Perspective." Analyzed 11 years of business license tax data to improve budget forecasting.

MERCURY · Intern — 2011
Prepared policy memos and daily news breakdowns for a government relations team. Briefed congressional staff on behalf of clients in several industries, including clean infrastructure and medical patient advocacy.

STATE OF OREGON · Intern — 2010
Attended legislative hearings and administrative meetings under the direction of the Senior Policy Advisor to the Governor. Reported back with summary memos and background policy research. Drafted correspondence for the Governor's office.

RESEARCH

Meredith Rolfe · University of Massachusetts Amherst — 2012 - 2014
Designed a behavioral experiment to study gender-based differences in voting behavior.

Dawn Teele · Fellow, London School of Economics — 2014
Helped build a cross-country dataset a of female representation in national parliaments.

John Sides · George Washington University — 2013
Assembled and annotated polling data for a book proposal on the federal budget deficit.

Hans Noel · Georgetown University — 2013
Audited a dataset of major congressional votes from 1947 to present.