

Max Pohlman

Data scientist with a unique combination of economic, environmental, and statistical knowledge and interest.

maxpohlman.com • maxpohlman@gmail.com • 617-755-4947

Education

PhD, Energy, Environmental, and Food Economics; Pennsylvania State University (University Park) (2019-Present)

MS, Environmental and Natural Resource Economics; University of Rhode Island (2015-2017)

Thesis title: Effects of Uncertainty and Ambiguity in Coasian Bargaining

BS, Economics; Pennsylvania State University (University Park) (2011-2015)

Minor: Environmental and Renewable Resource Economics

Experience

Data Scientist *Mathematica Policy Research (Oct 2017 – Aug 2019)*

Led development of numerous R-Shiny applications including layout design & CSS, modularization, application algorithm & logic development, web-browser communication, server deployment, package development.

Constructed and maintained a diverse suite of data processing pipelines and interactive visualizations using R, Python, Leaflet, JS, Selenium, and more.

Research Assistant *University of Rhode Island (Jan 2016 – Aug 2017)*

Conducted economic experiments and performed analysis of the effects of uncertainty and ambiguity on bargaining behavior. Funded under a NSF EPSCoR grant on [The Future of Dams](#)

Sustainability Intern *Enel Green Power (Jun-Aug 2016)*

Built an economic impacts tool that predicted changes in community employment and compensation based on community policy and specifications of company planned wind farms.

Research Assistant *Penn State University (Sep 2013 - May 2015)*

Performed multivariate analysis regarding economic factors and implications of the increase of Marcellus Shale fracking.

Other Skills

- 6 years experience coding in R, specifically:
 - Cleaning, organizing, transforming data (pkgs 'tidyverse')
 - Supervised and unsupervised learning via classification, regression, clustering, PCA, text analytics (pkgs 'caret', 'e1071', 'quanteda')
 - Econometric analysis via difference-in-difference, instrumental variables, regression discontinuity
 - Geospatial analysis of vectors, rasters. Construction of interactive maps (pkgs 'sf', 'sp', 'rgdal', 'rgeos', 'leaflet')
 - Visualization and document construction through ggplot, R-Shiny, R-Markdown
- Knowledge of git and project management through github
- Experience in Python, STATA, Markdown, MySQL, Bash, Access, MatLab, HTML, QGIS
- Construction of [stained glass artwork](#)

maxpohlman@gmail.com • 26 years old

2 Saint Paul Street #301 Brookline, MA 02446