# Max Pohlman

Data scientist with a unique combination of economic, environmental, and statistical knowledge and interest. <maxpohlman.com> • [maxpohlman@gmail.com](mailto: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 usingR, 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](https://nsf.gov/awardsearch/showAward?AWD_ID=1539071)

**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](http://www.maxpohlman.com/stainedglass)

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