

Trevor L. Davis

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Education

Stanford University

Palo Alto, CA

PhD, MA in Economics

April 2019

- Fields: Industrial Organization, Econometrics
- Dissertation: *Three Essays in Economics*: <https://purl.stanford.edu/cm732kn9537>

The George Washington University

Washington, DC

MS in Statistics

May 2010

The University of Chicago

Chicago, IL

BA in Economics, Statistics

June 2007

- Elected to Phi Beta Kappa

Work Experience

The Program on Energy and Sustainable Development

Stanford, CA

Postdoctoral Scholar (previously Graduate Research Assistant)

June 2011–present

- Research the impact of various policies on wholesale electricity markets
- Lead developer of PESD's Energy Market Game: <https://www.energymarketgame.org/>
- Write R, Stata, FORTRAN, Bash scripts to clean data and estimate models
- Help give workshops to electricity market regulators
- Teaching Assistant for GSBGEN 336: Energy Markets and Policy

Consultant

Stanford, CA

January 2011–present

- Wrote code for a Public Policy professor to simulate public pension funds
- Provided technical assistance to members of the Stanford Economics community
- Gave presentation on the startup ecosystem and trends

Cornerstone Research

Menlo Park, CA

Temporary Associate

August 2014–October 2014

- Estimated impact of a proposed merger between two consumer product companies

Visa Inc.

Foster City, CA

Graduate Intern

June 2012–March 2013 and May 2013–September 2013

- Estimated US/Canada cross-border consumer spending dynamics
- Wrote Hadoop MapReduce oriented utilities in Python and Bash

Federal Reserve Board of Governors

Washington, DC

Sr. Research Assistant

July 2007–August 2010

- Assisted economists in their research on robust monetary policy
- Estimated various predictive models in Matlab, R, BUGS, and TROLL
- Wrote Kalman Filter and Gibb Sampling algorithms in Matlab
- Wrote R package to generate historical real-time errors

Skills

Programming Languages: R, Python, Javascript, Bash, Stata, Matlab

Typesetting Languages: \LaTeX , html/css, markdown, reStructuredText, knitr

Misc.: Hadoop MapReduce, git, make/rake, Linux, Apache, vim/emacs

Languages: English (native). Mandarin (elementary), Spanish (elementary)

Notable Open Source R Packages

argparse: Command-line optional and positional argument parser

findpython: Functions to find an acceptable Python binary

ledger: Utilities for Importing Data from Plain Text Accounting Files

optparse: Command-line optional argument parser

o In 2018 depsy.org estimated me to be in the 99th percentile for research software impact

Papers

Published.....

Mark C. Thurber, Trevor L. Davis, and Frank A. Wolak. [Simulating the Interaction of a Renewable Portfolio Standard with Electricity and Carbon Markets](#). *Electricity Journal*, 28(4):51–65, May 2015.

Working.....

Trevor L. Davis, Dan Knoepfle, Stephen Teng Sun, and Constantine Yannelis. [Greener on the Other Side: Estimating Consumer Sensitivity to Local Sales Tax Changes](#). 2018.

Trevor L. Davis. [Carbon Allowance Allocation Schemes and Upstream and Downstream Market Outcomes: An Experimental Analysis](#). 2019.

Trevor L. Davis. [Carbon Pricing Schemes and Upstream and Downstream Market Outcomes: An Experimental Analysis](#). 2019.

Trevor L. Davis. Wholesale electricity market bid disclosure and ease of collusion: An experimental analysis. 2017.

Trevor L. Davis. Borders continue to matter: Cross-border consumer spending. 2013.

Trevor L. Davis. Predicting medieval use of and profits from hydropower technology: Evidence from Domesday England watermill data. 2014.