

Timothy Stehulak

Location: Greater Detroit Area, Michigan, USA
Website: <https://www.timothystehulak.com>
LinkedIn: <https://www.linkedin.com/in/stehulak>

Education

Simon Business School — Master of Science in Business Administration
University of Rochester (Rochester, NY)

Aug 2019

Relevant coursework (PhD level): Applied Econometrics, Econometrics, Empirical Asset Pricing
GPA: 3.42/4.00

The College of Wooster (Wooster, OH) — Bachelor of Arts in Economics

May 2013

Minor: Mathematics GPA: 3.76/4.00 Honors: Magna Cum Laude, Omicron Delta Epsilon
Relevant coursework: Econometrics, Applied Regression, Linear Algebra, Mathematical Modeling
Thesis: “A Study on the Impact of School Consolidation on Student Academic Achievement”

Activities: Hans H. Jenny Investment Club, Symphonic Band, Wooster Symphony Orchestra

Teaching Assistant for Principles of Economics and Intermediate Macroeconomic Theory

Study Abroad: University College London (London, UK) – Economics Department (Autumn 2011)

Experience

Research Analyst at Federal Reserve Bank of Cleveland

June 2014 - June 2017

- Co-authored nine Federal Reserve publications (listing on next page).
- Calculated the [median and trimmed-mean consumer price indexes](#) monthly. Wrote and maintained code in R for automated data collection from Bureau of Labor Statistics data API and to produce charts and tables for internal reports, saving 3-4 hours of work each month and guaranteeing accuracy of data.
- Provided research assistance for four of Dr. Rawley Heimer and co-author’s peer-reviewed papers. Wrote code in SQL, Stata, and MATLAB for acquiring and wrangling data, econometric analysis, and data visualization. Wrote Python scripts to process geographic (GIS) data to identify where political boundaries changed after redistricting.
- Prepared 30-50 graphs on macroeconomic indicators for briefings given to the bank president every 6-8 weeks before Federal Open Market Committee (FOMC) meetings. Worked jointly with research economists to address ad-hoc policy question for each briefing. Wrote Stata, MATLAB, or R code to analyze data with econometric methods including multivariate and logistic regressions, and produced charts and tables of our findings.
- Delivered public talks on (1) the national economic outlook to a group of retail traders and (2) the Greek debt crisis to a visiting collegiate economics class.
- Conducted a survey every 6-8 weeks to collect underlying data for the [Beige Book](#) for the Fourth Federal Reserve District. Created a Qualtrics survey to streamline data collection for participants who opted in. Data were compiled into [the national report](#).

Contract Research Assistant at International Food Policy Research Institute Dec 2013 - Apr 2014

- Wrote Stata programs to analyze agricultural plot data using econometric and panel data methods.
- Co-authored “[Woreda-Level Crop Production Rankings in Ethiopia: A Pooled Data Approach](#)” with James Warner and Leulseged Kasa, International Food Policy Research Institute (IFPRI) Project Paper, Jan 2015.

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Summer Student at DTE Energy (Monroe Power Plant)

Summer 2011 & 2012

- Conducted study of traffic flows of congested areas on site with group of interns, analyzed results, recommend additional controls, and presented findings to ad-hoc safety committee.
- Designed public relations booth at Monroe County Fair (Monroe, MI), coordinated over 50 volunteers to work the weeklong event, and managed the event budget.
- Created new databases and intranet website with ASP, SQL, and Microsoft Access to organize approximately 1000 documents for plant operators.
- Chaired family open house committee, organized over 20 volunteers at the open house event, and managed the event budget.

Technical Skills

- SQL, Python, R, GIS (QGIS), Stata, MATLAB
- Git version control, Bash, DigitalOcean, Docker
- Microsoft Office (Word, Excel, PowerPoint, Access), Windows, Linux
- Data science, analysis, and visualization. Data wrangling and cleaning including seasonal adjustment and data transformations.
- Statistics, econometrics, and machine learning. Classification, regression, and clustering models including multivariate regression, time series, panel data, logistic regression, non-linear optimization, principal component analysis, decision trees, random forests, and neural networks.

Federal Reserve Publications

- [“Geographic Mobility and Consumer Financial Health: Evidence from Oil Production Boom Towns”](#) with Rawley Heimer and Caitlin Treanor, Nov 2016
- [“The Long-Run Natural Rate of Interest”](#) with Charles Carlstrom, Dec 2015
- [“The Chinese Renminbi and the Fundamental Trilemma”](#) with Owen Humpage and Sara Millington, Oct 2015
- [“Assessing Consumer Confidence with Google Search Terms”](#) with Rawley Heimer and Daniel Kolliner, July 2015
- [“Mutable Economic Laws and Calculating Unemployment and Output Gaps - An Application to Taylor Rules”](#) with Charles Carlstrom, June 2015
- [“Behind the Slow Pace of Wage Growth”](#) with Filippo Occhino, Apr 2015
- [“Exchange-Rate Pass-Through and US Prices”](#) with Owen Humpage, Mar 2015
- [“Uncovering the Demand for Housing Using Internet Search Volume”](#) with Rawley Heimer and Daniel Kolliner, Feb 2015
- [“Implied Taylor Rules among Forecasters”](#) with Charles Carlstrom, Dec 2014