

# Shengyang “Travis” Cao

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## Education

B.A. in Economics and Mathematics, University of Wisconsin-Madison. 2019 (expected).  
*Economics major with mathematics emphasis*  
*Honors candidate for economics major*  
*Comprehensive honors candidate (Honors in Major and Honors in Liberal Arts)*

## Research Interests

Environmental Economics, Public Economics, Econometrics, Applied Microeconomics.

## Research Projects

- 2018 [“Does Energy Efficiency Affect Demand: An Empirical Study on the Energy Paradox Within Automobile Industry.”](#) Senior Honors Thesis.
- 2018 [“Uncertainty in Lightbulb Failing: A Study on the Energy Paradox Within the U.S. Residential Lighting Market.”](#)  
Research write-up forthcoming in *Equilibrium* Fall 2018 issue, UW-Madison Economics Undergraduate Research Journal.

## Grants, Scholarships, and Honors

- 2019 Juli Plant Grainger Scholarship in Economics.  
UW-Madison, Department of Economics.
- 2018 Honors Senior Thesis Summer Research Grants.  
UW-Madison, College of Letters and Science Honors Program.  
*Project: “Does Energy Efficiency Affect Demand: An Empirical Study on the Energy Paradox Within Automobile Industry.”*  
*Mentor: Professor Matthew Wiswall, UW-Madison, Department of Economics.*  
*Amount: \$3,000.*
- 2018 Degenhart Family Scholarship in Economics.  
UW-Madison, Department of Economics.
- 2015-2017 Dean’s List.  
UW-Madison, College of Letters and Science.

## Academic Presentations

- 2018 “Does Energy Efficiency Affect Demand: An Empirical Study on the Energy Paradox Within Automobile Industry,” Guest Speaker at *Global Economic Forum* Kick Off Meeting.  
UW-Madison, Department of Economics.
- 2017 “Groups & Symmetries,” Undergraduate Directed Reading Program.  
UW-Madison, Department of Mathematics.  
*Mentor: Moisés Herradón Cueto, UW-Madison, Department of Mathematics.*

## Academic Experiences

Research Intern and Data Analyst.

[Epistemic Analytics](#). UW-Madison, Wisconsin Center for Education Research (WCER).

2018-present

*Projects: How multimodal online resource materials facilitate student learning; policies on what resource to deploy in learning environments are proposed accordingly. Personally developed and am actively maintaining R package [hoo](#) for learning progress analysis.*

*Mentors: Hanall Sung, Professor David Shaffer, UW-Madison, WCER.*

## Work Experiences

Helpdesk Support Specialist, Quality Control, and Floor Supervisor.

IT Helpdesk. UW-Madison, Department of Information Technology (DoIT).

2016-2018

Marketing Assistant.

Waukesha, WI District. College Works Painting.

2016

## Miscellany

### Languages

Chinese, native speaker

English, bilingual proficiency

### Technical Skills

R (data.frame, data.table, tidyr, ggplot2, devtools, R package creation and maintenance),

Python (pandas, numpy, StatsModels, matplotlib, seaborn, geopandas, scikit),

L<sup>A</sup>T<sub>E</sub>X (including Beamer), Markdown, Stata, Jekyll, MATLAB, Microsoft Office

### Citizenship

China, People's Republic of