

# Shengyang “Travis” Cao

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## Education

Ph.D. in Economics, University of Wisconsin-Madison. 2024 (expected).

B.A. in Economics and Mathematics, University of Wisconsin-Madison. 2019 (expected).

*Economics major with mathematics emphasis*

*Comprehensive honors candidate (Honors in Economics Major and Honors in Liberal Arts)*

## Research Interests

Environmental Economics, Applied Microeconomics, Econometrics.

## Research Projects

2018 [“Does Energy Efficiency Affect Demand: An Empirical Study on the Energy Paradox Within Automobile Industry.”](#) Senior Honors Thesis.

## 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: Perform market demand estimation on California non-commercial automotive sector to determine the role of fuel efficiency in consumer preferences.*  
*Mentor: Professor Matthew Wiswall, UW-Madison, Department of Economics.*  
*Amount: \$3,000.*
- 2018 Degenhart Family Scholarship in Economics.  
UW-Madison, Department of Economics.
- 2015-17 Dean’s List (all semesters).  
UW-Madison, College of Letters and Science.

## Academic Presentations

- 2019 “Does Energy Efficiency Affect Demand: An Empirical Study on the Energy Paradox Within Automobile Industry,” Senior Honors Thesis Symposium.  
UW-Madison, College of Letters and Science Honors Program.
- 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

- 2018-19    Research Intern and Data Analyst.  
[Epistemic Analytics](#). UW-Madison, Wisconsin Center for Education Research (WCER).  
*Projects: How multimodal data analysis facilitates understanding of student learning. Personally developed R package [hoo](#) for learning progress analysis.*  
*Mentors: Hanall Sung, Professor David Shaffer, UW-Madison, WCER.*

## Work Experiences

- 2016-18    Helpdesk Support Specialist, Quality Control, and Floor Supervisor.  
IT Helpdesk. UW-Madison, Department of Information Technology (DoIT).
- 2016        Marketing Assistant.  
Waukesha, WI District. College Works Painting.

## Miscellany

### Languages

Chinese, native speaker  
English, bilingual proficiency

### Technical Skills

R (data.frame, data.table, tidyr, ggplot2, devtools, R package creation and maintenance),  
Java, Python (pandas, numpy, StatsModels, matplotlib, seaborn, geopandas, scikit),  
L<sup>A</sup>T<sub>E</sub>X (including Beamer), Markdown, Liquid, Jekyll, Stata, MATLAB

### Citizenship

China, People's Republic of