

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),

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

L^AT_EX (including Beamer), Markdown, Stata, Jekyll, MATLAB, Microsoft Office

Citizenship

China, People's Republic of