A person posing for the camera

Description automatically generated**Wendan Zhang**

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[GitHub](https://github.com/Danny1127) [Personal Website](http://u.arizona.edu/~wzhang357/index.html) [LinkedIn](https://www.linkedin.com/in/WendanZhang357/) [ASA](https://www.actuarialdirectory.org/?searchType=11&discloseId=OLlRK7tQXIOI%2FO7q0tuRfw%3D%3D)

I apply my quantitative skills and analytical thinking in revealing underlying mechanisms and informing effective policy design. My research aims to improve our living environment in a cost-efficient way.

Education

**University of Arizona** *Tucson, AZ* Ph.D., May 2021 (expected)

Major: Economics Master's degree, Dec 2017

Minor: Geographic Information Systems Technology (GIST)

**University of Wisconsin-Madison** *Madison, WI* Master's degree, May 2016

Major: Mathematics

**Shanghai Jiao Tong University** *Shanghai, China* Bachelor of Science degree, June 2015

Major: Mathematics and Applied Mathematics

Minor: Business Administration, **East China Normal University** *Shanghai, China*

Fields

**Environmental and Energy Economics; Industrial Organization; Applied Microeconomics**

Working Papers & Publication

***Job Market Paper:***

[**Measuring Policy Uncertainty Using Coal Power Plants' Investment and Exit Decisions**](http://www.u.arizona.edu/~wzhang357/paper/WendanZhang_JMP.pdf)

*Other Working Paper:*

[**Emissions from Coal-Fired Power Plant Retirements**](http://www.u.arizona.edu/~wzhang357/paper/WendanZhang_Emission.pdf)

*Work in progress:*

[**Electric Vehicles are driven less: selection or substitution**](http://www.u.arizona.edu/~wzhang357/paper/WendanZhang_EV.pdf) (Ashley Langer, Clifford Winston, Wendan Zhang)

[**Enforcing Higher Quality of Care: Nursing Home Industry under Dynamic Inspection**](http://www.u.arizona.edu/~wzhang357/paper/HI.pdf) (with Miao Guo)

*Publication:*

Christopher T Robertson, Andy Yuan, **Wendan Zhang** and Keith Joiner. "Distinguishing moral hazard from access for high-cost healthcare under insurance." PloS one (2020) (peer-reviewed, interdisciplinary for science and medicine)

Research Assistant Experience

**Measuring the Economic Consequences of Uncertainty** University of Arizona, AZ

Research Assistant to Prof. Ashley Langer and Prof. Derek Lemoine Summer 2017, 2018

• Used option data to reveal the market expectation for certain events

• Used Stata to provide empirical evidence for the project

**Computational Biochemistry Lab** University of Wisconsin-Madison Madison, WI

Research Assistant to Prof. Julie Mitchell 01/2015 – 07/2016

• Applied Machine Learning algorithms to data analysis and build models to describe patterns in DNA sequences

• Processed large data with High Throughput Computing (HTC), created graphs to visualize large data with Matlab, Python, and R

• Explained and reported research results to group members

Workshops/Conferences

**SEA 90th Annual Meeting** 11/21-23 2020

*Presentation: Effects of Market Conditions, Environmental Regulations and Regulatory Uncertainty on Investment and Exit*

*General Session: Enforcing Higher Quality of Care: Nursing Home Industry under Dynamic Inspection (with Miao Guo)*

*Graduate Student Invited Session (with cash award and membership): Emissions from Coal-Fired Power Plant Retirements*

**Chinese Economists Society North America Annual Conference** 8/13-8/15 2020

*Presentation: Emissions from Coal-Fired Power Plant Retirements*

**AAEA Annual Meeting** 8/10-8/11 2020

*Lightning Paper Presentation: Effects of Regulatory Uncertainty on Coal-fired Power Plants' Investment and Exit Decisions*

**AERE Summer Conference** 6/3-6/5 2020

*Presentation: Effects of Market Conditions, Environmental Regulations and Regulatory Uncertainty on Investment and Exit*

**Women in Data Science (WiDS)** 4/5/2019

**Arizona Student Energy Conference** 11/7-11/9 2018

*Panel Presenter; Poster; Fast Pitch; Member of One of the Two Grand Challenge Winning Teams*

*Presentation: Emission Footprint: the dying message from coal power plants*

**International GIS day workshop** 11/18/2020; 11/13/2019; 11/14/2018

**2018 Berkeley Summer School in Environmental and Energy Economics** 8/13-8/17 2018

**Research Computing: NVIDIA GPU Workshop** 4/25-4/26 2018

Teaching Experience

**Sole Instructor University of Arizona, Tucson, AZ**

Econ 330 Macroeconomic and Global Institutions and Policy (Online) Summer (4.08), Winter 2019; Summer 2020

Econ 431 Games and Decisions Summer 2019 (3.88); Winter 2017 (4.4)

Econ 436 Behavioral Economics Summer 2018 (3.9)

**Teaching Assistant University of Arizona, Tucson, AZ**

Econ 519 Mathematical Economics (First-year Graduate Course) Fall 2017

Econ 453 Quantitative Methods for Economic Strategy Fall 2020

Econ 443 International Trade Theory Fall 2020

Econ 431 Games and Decisions Spring 2017

Econ 340 International Economics and Policy Spring 2019

Econ 330 Macroeconomic and Global Institutions and Policy Fall 2017

Econ 300 Microeconomic Analysis for Business Decisions Fall 2016; Winter 2016 (online)

Econ 200 Basic Economic Issues Fall 2016 (online); Spring 2017; 2018; 2019; Spring 2020

Volunteer

Economic Science Association (ESA) Global Conference Graduate Student Helper Asian Pacific Block 9/10-9/12/2020

GISCorps – Humanitarian OpenStreetMap Team Project Summer 2020

Eller Make A Difference Day 10/26/2019

UA Women's Hackathon (Python for Programmers; Cloud-Based GIS with Python) 10/19-10/20/2019

University of Arizona Global Health Competition 10/12-10/13 2019

University of Arizona Graduate and Professional Student Council Grants Judge 2016-2019

Software/Data Carpentry Workshop (Assistant) 08/2017

UW Arboretum restoration (organized by UW actuarial club) 01/2016

UW Homecoming -- run for literacy 10/2015

Shanghai International Marathon Volunteer 12/2012

Awards & Exams

University of Arizona GPSC Travel Grant 2020, 2021

University of Arizona, Department of Economics, Travel Grant 2018, 2020, 2021

University of Arizona, Department of Economics, Graduate Assistantship 2016-2021

Outstanding graduate of the Shanghai Jiao Tong University 06/2015

Japanese Language Proficiency Test N1 (the highest level): passed 12/2013

Affiliations/Memberships

Associate of the Society of Actuaries ([ASA](https://www.actuarialdirectory.org/?searchType=11&discloseId=OLlRK7tQXIOI%2FO7q0tuRfw%3D%3D) of the SOA) Since Feb 2018

Graduate Student Affiliate (Institute for Energy Solutions) Since 2019

Member of the Chinese Economist Society (CES)

Member of the Association of Environmental and Resource Economists (AERE)

Member of the Agricultural & Applied Economics Association (AAEA)

Member of the Southern Economic Association (SEA)

Student Ambassador of the University of Arizona Geographic Information Systems Users Group (UAGISUG)

Technical Skills

For research: R, Stata, Python, Latex, ArcGIS Pro (Python), MATLAB, Bash, SAS, Orange, C, SQL, AWK, GitHub

For teaching: Microsoft Word, Excel (with VBA), PowerPoint, Adobe Creative Suite (Acrobat Pro DC, Premiere Pro, Prelude, Audition, After Effect and Media Encoder), iMovie, Overleaf

Website: PHP, HTML, CSS

Operating System: Mac, Windows, Linux (Ubuntu)

Languages

**Citizenship:** China

**Native:** Mandarin, Cantonese, Chaoshan dialect

**Fluent:** English, Japanese

**Basic:** Korean

References

**Ashley Langer (Dissertation Advisor)** alanger at arizona.edu

**Derek Lemoine** dlemoine at arizona.edu

**Gautam Gowrisankaran** gowrisankaran at eller.arizona.edu

**John Drabicki (Teaching Reference)** drabicki at eller.arizona.edu

Last updated on December 16, 2020