

Yuqi Song

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Education

The University of Chicago, Harris School of Public Policy <i>Ph.D. in Public Policy Studies</i>	Chicago, IL Expected June 2023
The University of Chicago, Booth School of Business <i>Master of Business Administration</i>	Chicago, IL March 2017
Massachusetts Institute of Technology <i>Bachelor of Science in Mathematics and Economics</i> <i>Minor in Chemistry and Management Science</i>	Cambridge, MA June 2014

Areas of Interest

Environmental and Energy Economics, Climate Economics, Chinese Economy, Applied Microeconomics, Development Economics.

Working Papers

The Value of Weather Forecasts: Labor Responses to Accurate and Inaccurate Temperature Forecasts in China (**Job Market Paper**).

The Value of Accurate Weather Forecasts: Social Sentiment Responses Reflected in Social Media in China (*MIT Center for Real Estate Research Paper 21/20 (2021)*)
https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3960830).

The Effect of the End-Number License Plate Driving Restriction on Reducing Air Pollution in China.

Arctic Air-Mass Displacement and Reduced Mid-Latitude Wintertime Temperature Variability under Climate Change, with Ivan Higuera-Mendieta, Amanda Farah, Claire Valva, Jim Franke, Noboru Nakamura and Elisabeth Moyer (*NRT Program in Data Science for Energy and Environmental Research Paper*).

Work in Progress

The Value of Accurate Weather Forecasts: The Impacts of Accurate Temperature Forecasts on Road Congestion in China.

The Contribution of Coal Plant Production to Air Pollution in China: A Design Using the City Lockdown Setting During the Early 2020 COVID-19 Outbreak, with Zhixiong Weng.

The Impacts of Sporadic Regional COVID-19 Lockdown on Online Merchandise Sales in China, with Zhixiong Weng.

The Development of China's Energy System: An Interpretation Using the Sankey Diagram, with Wenjia Ma, Elisabeth Moyer and Yunzhang Hu.

Publications

“Forecasting energy demand, structure, and CO2 emission: a case study of Beijing, China”, Zhixiong Weng, Yuqi Song, Hao Ma, Zhong Ma, and Tingting Liu, *Environment, Development and Sustainability* (2022): 1-23.

“Convergence of Eigenvalues to the Support of the Limiting Measure in Critical Beta Matrix Models”, Chenjie Fan, Alice Guionnet, Yuqi Song, Andi Wang, *Random Matrices: Theory Appl.* **04**, 1550013 (2015), <https://doi.org/10.1142/S2010326315500136>.

Fellowship and Honor

Harris Public Policy Fellowship for PhD Candidates, The University of Chicago Harris School of Public Policy, 2018-Present.

DRW Graduate Fellowship in Economics and Policy, Energy Policy Institute at the University of Chicago, 2018-Present.

MIT Sustainable Urbanization Lab Summer Research Paper Fellowship, MIT Sustainable Urbanization Lab, June 2021-September 2021.

National Research Traineeship (NRT) Program in Computational Data Science to Advance Research at the Energy-Environment Nexus at the University of Chicago, National Science Foundation, July 2018-September 2021.

Phi Beta Kappa, Massachusetts Institute of Technology Department of Economics, 2014.

Research Experience

Energy Policy Institute at the University of Chicago, China Center (EPIC-China)

The University of Chicago Beijing Center and Chinese Center for Disease Control and Prevention, Beijing, China

Research Assistant

June 2019-August 2019

Projects: Researches of the Impact of Chinese Environmental Policies on Human Mortality Rate.

Energy Policy Institute at the University of Chicago (EPIC) Climate Impact Lab

The University of Chicago, Chicago, IL

Research Assistant, the EPIC Pre-Doctoral Fellowship Program

February 2017-August 2018

Projects: The Climate Change Impact on Global Mortality, Labor and Energy Consumption.

Undergraduate Research Opportunities Program (UROP)

Department of Economics, Massachusetts Institute of Technology, Cambridge, MA

National Bureau of Economic Research, Cambridge, MA

Research Assistant for Professor David Autor and Professor Parag Pathak May 2012-February 2014

Projects: Spillover Effect of Retracting Rent Control Regulation in Cambridge, MA; Enrollment of Massachusetts Charter Schools; Long-term Influence on Recipients of the Buffett Scholarship in Nebraska.

Research Assistant for Professor Jerry Hausman and Professor Whitney Newey May 2013-June 2014

Projects: Incidental Parameter Bias Correction; The Price Elasticity Under Peak-Valley Pricing Strategy in China; Heterogeneity in Gasoline Pricing Model.

Teaching Experience

The University of Chicago, Harris School of Public Policy

Teaching Assistant

January 2020-March 2022

Courses: Cost-Benefit Analysis (for MPP students, Winter 2020, Winter 2021) and Environmental Economics (for MPP and undergraduate students, Spring 2020, Winter 2022).

Environmental Data Science Virtual Bootcamps 2020, The University of Chicago

Moderator

September 2020

Course: Statistics for Research.

Conference Presentations

“The Value of Accurate Weather Forecasts: Social Sentiment Responses Reflected in Social Media in China”. *The Third Graduates Forum of the Global Alliance of Universities on Climate*, October 2021, Tsinghua University, Beijing, China (Video Presentation).

“The Impacts of Daily Weather Forecast on Labor and Transportation Response to Extreme Weathers in China”. *The Second Graduates Forum of the Global Alliance of Universities on Climate*, November 2020, Tsinghua University, Beijing, China (Oral Presentation).

“Arctic Air-Mass Displacement and Reduced Mid-Latitude Wintertime Temperature Variability under Climate Change”. *American Geophysical Union Fall Meeting 2020*, December 2020 (Online Poster Presentation with Ivan Higuera-Mendieta and Amanda Farah).

Review Activity

Frontiers of Environmental Science & Engineering, 2022.

Skills

Language: Chinese (Mandarin and Cantonese), English.

Computer: R, STATA, Matlab, Mathematica, Python, Bash, GIS, Git, Google API, Climate Data Store (CDS) API, LaTeX, Microsoft Office (WORD, EXCEL, PowerPoint), EXCEL DecisionTools Suite (Precision Tree, @Risk, RiskOptimizer), Keynote, VB, Pascal, Photoshop.

Lab: Titration, Chromatography, Distillation, Crystallization, Extraction.

References

Professor Ryan Kellogg

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Professor Michael Greenstone

The University of Chicago, Kenneth C. Griffin Department of Economics

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Professor Amir Jina

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