Bixuan Sun - CV Page 1 of 4

Bixuan Sun

Humphrey School of Public Affairs, University of Minnesota 301 19th Ave S, Minneapolis, MN 55455 (320) 287-4315

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APPOINTMENT

Post-Doctoral Researcher

University of Minnesota, Humphrey School of Public Affairs 2018

EDUCATION

| Ph.D. | |
|--|-----------|
| University of Minnesota, Department of Applied Economics | 2018 |
| M.S. | |
| University of Minnesota, Department of Applied Economics | 2015 |
| B.A. | |
| University of Minnesota, Morris | 2013 |
| Shanghai University, Shanghai, China (transferred) | 2009-2011 |

RESEARCH INTERESTS

Environmental Economics, Energy Policies, Applied Microeconomics.

PROGRAMMING SKILLS

R, Stata, GAMS (General Algebraic Modeling System), Mathematica, Matlab, GIS (Geographic Information System), Microsoft Access, LaTex, Lyx.

PUBLICATIONS

- Sun, B.; Eryilmaz, D.; Konidena, R. "Transparency in Long-Term Electric Demand Forecast: A Perspective on Regional Load Forecasting". IEEE Smart Grid Newsletter, August 2019.
- Sun, B.; Apland, J. (2019) "Optimal bus scheduling considering operating costs and emissions: a multiple objective, mixed integer programming framework". Public Transport, 11(2), 237-267.
- Sun, B. (2018). Heterogeneous direct rebound effect: Theory and evidence from the Energy Star program. Energy Economics, 69, 335-349.
- Damon, A., Glewwe, P., Wisniewski, S., & Sun, B. (2019). What education policies and programmes affect learning and time in school in developing countries? A review of evaluations from 1990 to 2014. Review of Education, 7(2), 295-387.
- Damon, A., Glewwe, P., Wisniewski, S., & Sun, B. (2016). Education in Developing Countrieswhat Policies and Programmes Affect Learning and Time in School?. Expertgruppen för biståndsanalys (EBA). ISBN:978-91-88143-12-9.

Bixuan Sun - CV Page 2 of 4

WORKING PAPERS

Bhandari, Vivek; Konidena, Rao; Sun, Bixuan. "Missing discourse on microgrids – the importance of Transmission and Distribution infrastructure"

Eryilmaz, Derya; Sun, Bixuan. "Impacts of electric vehicle adoption on utility short and long term planning"

Sun, Bixuan "Heterogeneous Impacts of Residential Solar Rebate Programs in the U.S.: A Machine Learning Perspective".

Sun, Bixuan; Chan, Gabriel. "A Network-Based Automated Approach for Identifying Technological Spillovers with an Application in Solar Photovoltaics".

Sun, Bixuan; Miller, Steve. "Market power and the transition to clean energy"

Miller, Steve; Sun, Bixuan. "Diversifying the measurement of patent diversity".

Miller, Steve; Sun, Bixuan. "The origins of breakthrough innovation in clean energy"

Glewwe, Paul; Wisniewski, Suzanne; Sun, Bixuan. "Teachers in Developing Countries"

TEACHING EXPERIENCE

Adjunct professor

Hamline University

MSBA 8170: Advanced Statistics and Machine Learning I

Design online course materials and teach the 8-week long course to students in Master of Science in Business Analytics program. R is the primary tool used, and topics include an overview of regression analysis (including logistic, OLS, Poisson, and nonlinear models), supervised machine learning methods, including decision trees, random forests, support vector machine, as well as text mining methods.

Guest Lecturer Spring 2018

Department of Applied Economics, University of Minnesota

APEC 8202: Mathematical Optimization in Applied Economics

Deliver lectures on the application of integer programming and transportation problem.

Teaching Assistant

January 2017

Spring 2018

Universidad del Pacifico, Lima, Peru

Impact Evaluation Technical Course:

How to Design, Manage, and Conduct Impact Evaluations

Deliver hands-on-learning lectures on the application of impact evaluation; focus on econometric methods and Stata application; course participants include researchers at the Ministry of Education in Peru and undergraduate students at the Universidad del Pacifico.

Bixuan Sun - CV Page 3 of 4

Teaching Assistant August 2016

The World Bank, Shanghai, China

Impact Evaluation Technical Course:

How to Design, Manage, and Conduct Impact Evaluations

Deliver hands-on-learning lectures on the application of impact evaluation; focus on program design, econometric methods and Stata application; course participants include development researchers from 20 countries.

Teaching Assistant Fall 2015

Department of Applied Economics, University of Minnesota

APEC 8001-8002: Applied Microeconomics –

Demand and Production Theory

Deliver recitation lectures on the application of theories and methods; create and grade problem sets; hold office hours to assist students.

RESEARCH EXPERIENCE

Graduate Research Assistant 2016-2017

Department of Applied Economics, University of Minnesota

Examine the relationship between patent diversity and breakthrough technologies, and its implication on clean energy development in the U.S.

Consultant 2014-2015

Center for Global Development, Washington, D.C.

Conduct literature review and data analysis on the effects of school resources and policies on learning outcomes in developing countries.

Graduate Research Assistant

2013-2014

Department of Applied Economics, University of Minnesota

Collect data and design an optimization model for efficient bus
scheduling assignments and the fleet composition.

CONFERENCE PRESENTATIONS

2019 Workshop in Environmental Economics and Data Science, Portland, OR.

2019 EAERE-ETH European Winter School on the economics of energy transition, Ascona, Switzerland.

2018 Midwest International Economic Development Conference, Minneapolis, MN.

- 2017 Association of Public Policy Analysis & Management Research Conference, Chicago, IL.
- 2017 Agricultural and Applied Economics Association Annual Meeting, Chicago, IL.
- 2017 Northeastern Agricultural and Resource Economics Association Annual Meeting, Arlington, VA.
- 2017 Midwest Economics Association Annual Meeting, Cincinnati, OH.
- 2016 Interdisciplinary PhD Workshop in Sustainable Development, Columbia University, NYC.
- 2015 Midwest Economics Association Annual Meeting, Minneapolis, MN.

Bixuan Sun - CV Page 4 of 4

FELLOWSHIPS AND AWARDS

2019 Agriculture & Applied Economics Association Outstanding Doctoral Dissertation Honorable Mention.

Doctoral Dissertation Fellowship, 2017. University of Minnesota.

Best Second-Year Paper Prize, 2016. University of Minnesota.

Outstanding Teaching Assistant Award, 2016. University of Minnesota.

Applied Economics Graduate Program Assistantship, 2014-2018. University of Minnesota.