Bixuan Sun
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APPOINTMENT

Post-Doc 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

Environment and Natural Resources Economics, Applied Microeconomics, Energy Policies.

PROGRAMMING SKILLS

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

PUBLICATIONS

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. and **Sun, B**. (2018), What education policies and programmes affect learning and time in school in developing countries? A review of evaluations from 1990 to 2014. Rev Educ.. doi:10.1002/rev3.3123

Damon, A., Glewwe, P., Wisniewski, S., & **Sun, B**. (2016). Education in Developing Countries-what Policies and Programmes Affect Learning and Time in School?. Expertgruppen för biståndsanalys (EBA). ISBN:978-91-88143-12-9.

WORKING PAPERS

Sun, Bixuan; Apland, Jeffrey. "Optimal bus scheduling considering operating costs and emissions: a multiple objective, mixed integer programming framework". (review and resubmit)

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

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

Sun, Bixuan; Eryilmaz, Derya; Konidena, Rao. "Transparency in Long-Term Electric Demand Forecast: A Perspective on Regional Load Forecasting".

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

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
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.

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.

FELLOWSHIPS AND AWARDS

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.