

Bixuan Sun

Humphrey School of Public Affairs, University of Minnesota
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APPOINTMENT**Post- Doctoral Researcher**

University of Minnesota, Humphrey School of Public Affairs 2018 - present

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 EXPERTISE

Energy Economics, Policy Evaluation, Applied Microeconomics, Machine Learning.

PROGRAMMING SKILLS

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

PUBLICATIONS

Konidena, R., **Sun, B.**, & Bhandari, V. (2020). Missing discourse on microgrids—The importance of transmission and distribution infrastructure. *The Electricity Journal*, 33(4), 106727.

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.; Aplan, 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 Countries-what Policies and Programmes Affect Learning and Time in School?*. Expertgruppen för biståndsanalys (EBA). ISBN:978-91-88143-12-9.

WORKING PAPERS

Chan, Gabriel; Grimley, Matthew; Sun, Bixuan. "Energy transition without competitive market: the political economy of equity and efficiency in electricity resource deployment"

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."

Sun, Bixuan; Kolesnikov, Sergey; Goldstein, Anna; Chan, Gabriel. "A Dynamic Approach for Identifying Technological Breakthroughs with an Application in Solar Photovoltaics".

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

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

RESEARCH EXPERIENCE

Graduate Research Assistant, 09/2016 – 05/2017. 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, 10/2014 – 05/2015. Center for Global Development, Washington, D.C. *Conduct literature review and data analysis on the effects of school resources and policies in developing countries.*

Graduate Research Assistant, 09/2013-05/2014. Department of Applied Economics, University of Minnesota. *Collect data and design an optimization model for efficient bus scheduling assignments and the fleet composition.*

TEACHING EXPERIENCE

Adjunct instructor, 07/2019 – 12/2019. Hamline University.

MSBA 8170: Advanced Statistics and Machine Learning I

Guest Lecturer, 03/2018. Department of Applied Economics, University of Minnesota

APEC 8202: Mathematical Optimization in Applied Economics

Teaching Assistant, 01/2017. Universidad del Pacifico, Lima, Peru.

Impact Evaluation Technical Course: How to Design, Manage, and Conduct Impact Evaluations

Teaching Assistant, 08/2016. The World Bank, Shanghai, China.

Impact Evaluation Technical Course: How to Design, Manage, and Conduct Impact Evaluations

Teaching Assistant, 09/2015 – 12/2015. University of Minnesota.

APEC 8001-8002: Applied Microeconomics – Demand and Production Theory

FELLOWSHIPS AND AWARDS

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

Doctoral Dissertation Fellowship, 2017. University of Minnesota.

Outstanding Teaching Assistant Award, 2016. University of Minnesota.

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

SELECTED PROFESSIONAL ACTIVITIES

2019 Association for Public Policy Analysis and Management Fall Research Conference, Denver, CO.

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

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

2017 Berkeley/Sloan Summer School in Energy and Environmental Economics, Berkeley, CA.

2017 Colorado Technology Primer for Economists and Social Scientists, Golden, CO.