

# XIAORUI HUANG

Curriculum Vitae

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Department of Sociology  
Boston College  
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## EMPLOYMENT

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2026-present Assistant Professor of Sociology and Environmental Studies, Boston College

2022-2025 Assistant Professor, Department of Sociology, Drexel University

2023-2025 Faculty Affiliate, Center for Science, Technology and Society, Drexel University

## EDUCATION

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2022 PhD, Sociology, Boston College

2017 MA, Sociology, Boston College

2014 BS, Sociology & International Studies, University of Oregon (Summa Cum Laude)

## AREAS OF INTEREST

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Environmental Sociology, Climate Change, Global and Transnational Sociology, Political Economy, Sociology of Development, Social Inequality, Quantitative and Computational Methods, Sustainability Science

## PUBLICATIONS

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### Refereed Journal Articles

2024 **Huang, Xiaorui.** "[Harness the Co-Benefit and Avoid the Trade-off: The Complex Relationship between Income Inequality and Carbon Dioxide Emissions.](#)" *Social Forces* 103(2): 403-428.

**Huang, Xiaorui.** ["The Multidimensional Relationship Between Renewable Energy Deployment and Carbon Dioxide Emissions in High-Income Nations."](#) *npj Climate Action* 3:107.

**Huang, Xiaorui.** ["Not All Emissions Are Created Equal: Multidimensionality in Nations' Greenhouse Gas Emissions and the Affluence/Emissions Nexus."](#) *Socius* 10. doi.org/10.1177/23780231241238962.

2023 Jorgenson, Andrew K., Brett Clark, Ryan P. Thombs, Jeffrey Kentor, Jennifer E. Givens, **Xiaorui Huang**, Hassan El Tinay, Daniel Auerbach, and Matthew C. Mahutga. ["Guns Versus Climate: How Militarization Amplifies the Impact of Economic Growth on Carbon Emissions."](#) *American Sociological Review* 88(3): 418-453.

- Honorable Mention of the 2024 Professional Article Award Competition, Political Economy of the World-System Section, American Sociological Association.
- Honorable Mention of the 2025 the Outstanding Publication Award Competition, Environmental Sociology Section, American Sociological Association.
- featured in an article in *Contexts* magazine titled ["The war on climate"](#).

2022 Gareau, Brian, J., **Xiaorui Huang**, Tara Pisani Gareau, and Sandra DiDonato. ["Silent Spring at 60: Assessing Environmentalism in the Cranberry Treadmill of Production."](#) *Journal of Rural Studies* 85: 505-520.

Thombs, Ryan, **Xiaorui Huang**, and Jared Fitzgerald. ["What Goes Up Might Not Come Down: Modeling Directional Asymmetry with Large N, Large T Data."](#) *Sociological Methodology* 52(1):1-29.

2021 Thombs, Ryan P., **Xiaorui Huang**, Andrew K. Jorgenson. ["It's About Time: How Recent Advances in Time Series Analysis Techniques can Enhance Energy and Climate Research."](#) *Energy Research & Social Science* 72:101882.

Jorgenson, Andrew K., Ryan P. Thombs, Brett Clark, Jennifer E. Givens, Terrence D. Hill, **Xiaorui Huang**, Orla M. Kelly, Jared B. Fitzgerald. ["Inequality Amplifies the Negative Association between Life Expectancy and Air Pollution: A Cross-National Longitudinal Study."](#) *Science of The Total Environment* 758:143705.

2020 Jorgenson, Andrew, Jared Fitzgerald, Ryan Thombs, Terrence Hill, Jennifer Givens, Brett Clark, Juliet Schor, **Xiaorui Huang**, Orla Kelly, and Peter Ore. ["The Multiplicative Impacts of Working Hours and Fine Particulate Matter Concentration on Life Expectancy: A Longitudinal Analysis of US States."](#) *Environmental Research* 191:110117.

- Gareau, Brian J., **Xiaorui Huang**, Tara Pisani Gareau, and Sandra DiDonato. "[The Strength of Green Ties: Massachusetts Cranberry Grower Social Networks and Effects on Climate Change Attitudes and Action.](#)" *Climatic Change* 162: 1613-1636.
- Highlighted in *National Geographic* article titled "Climate change is coming for New England's cranberries."
- 2019 Thombs, Ryan, and **Xiaorui Huang**. "[Uneven Decoupling: the Economic Growth/CO<sub>2</sub> Emissions Relationship in the Global North, 1870-2014.](#)" *Sociology of Development* 5:410-427.
- Givens, Jennifer, **Xiaorui Huang**, and Andrew K. Jorgenson. "[Ecologically Unequal Exchange: A Theory of Global Environmental Injustice.](#)" *Sociology Compass* 13(5):e12693.
- 2018 **Huang, Xiaorui**. "[Ecologically Unequal Exchange, Recessions, and Climate Change: A Longitudinal Study.](#)" *Social Science Research* 73:1-12.
- Recipient of the Severyn T. Bruyn Award for Outstanding Scholarship in Social Economy and Social Justice, Sociology Department, Boston College.
- Huang, Xiaorui**, and Andrew K. Jorgenson. "[The Asymmetrical Effects of Economic Development on Consumption-Based and Production-Based Carbon Dioxide Emissions, 1990-2014.](#)" *Socius* 4:1-10.
- Recipient of the John B. Williamson Award, Sociology Department, Boston College.
- Gareau, Brian J., **Xiaorui Huang**, and Tara Pisani Gareau. "[Social and Ecological Conditions of Cranberry Production and Climate Change Attitudes in New England.](#)" *PLOS One* 13(12):e0207237.
- 2017 Jorgenson, Andrew K., Juliet Schor, and **Xiaorui Huang**. "[Income Inequality and Carbon Emissions in the United States: A State-level Analysis, 1997–2012.](#)" *Ecological Economics* 134:40-48.
- Highlighted in *Nature* (551:S142-S144) "Outlook" Article titled "How Social Scientists Can Help to Shape Climate Policy."
  - Received widespread press coverage, including coverage from Science Daily, Physics.org, Metro.us, United Press International, Alternet, and Voice of America.
- 2016 Jorgenson, Andrew K., Juliet Schor, Kyle W. Knight, and **Xiaorui Huang**. "[Domestic Inequality and Carbon Emissions in Comparative Perspective.](#)" *Sociological Forum* 31:770-786.

- 2015 Jorgenson, Andrew K., Juliet Schor, **Xiaorui Huang**, and Jared Fitzgerald. "[Income Inequality and Carbon Emissions in the United States: A Preliminary Analysis](#)." *Human Ecology Review* 22:93-106.

### Edited Volumes

- 2021 Caniglia, Beth, Andrew K. Jorgenson, Stephanie A. Malin, Lori Peek, David N. Pellow, and **Xiaorui Huang**. [Handbook of Environmental Sociology](#). Dordrecht, Netherlands: Springer.

### Book Chapters

- 2025 Jorgenson, Andrew, Jennifer Givens, **Xiaorui Huang**, and Hassan El Tinay. (Invited). "Ecologically Unequal Exchange as a Catalyst for Climate Action." in *the Oxford Handbook of Climate Action*, edited by P. Almeida. Oxford University Press.
- Jorgenson, Andrew, Hassan El Tinay, Jared Fitzgerald, Jennifer Givens, Taekyeoung Goh, **Xiaorui Huang**, Orla Kelly, Annika Rieger, and Ryan Thombs. (Invited). "Advances in Research on Anthropogenic Drivers of Climate Change." in *Routledge Handbook of Climate Change and Society, 2<sup>nd</sup> Edition*, edited by S. Brechin and S. Lee. New York: Routledge Publishing.
- 2021 Givens, Jennifer, and **Xiaorui Huang**. "Ecologically Unequal Exchange and Environmental Load Displacement." Pp. 53-76 in *Handbook of Environmental Sociology*, edited by B. Schaefer Caniglia, A. Jorgenson, S. A. Malin, L. Peek, D. N. Pellow, and X. Huang. Dordrecht, Netherlands: Springer.

### Other Scholarly Publications

- 2024 Givens, Jennifer, and **Xiaorui Huang**. 2024. "Ecologically Unequal Exchange." Pp. 199-205 in *Elgar Encyclopedia of Environmental Sociology*, edited by Christine Overdevest. Northampton, MA, USA: Edward Elgar Publishing.

### FELLOWSHIPS, AWARDS, AND HONORS

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- 2024 Provost Award for Faculty Summer Research, Drexel University (7,000 USD).
- 2021 Donald J. White Teaching Excellence Award, Boston College.
- 2021 Summer Research Fellowship, Sociology Department, Boston College (5,000 USD).
- 2020 Benedict S. Alper Graduate Fellowship, Sociology Department, Boston College (10,839 USD).
- 2019 John B. Williamson Paper Award, Sociology Department, Boston College.

- 2018 Summer Research Fellowship, Sociology Department, Boston College (5,000 USD).
- 2017 Severyn T. Bruyn Award for Outstanding Scholarship in Social Economy and Social Justice, Sociology Department, Boston College.
- 2017 Ritchie P. Lowry Research Fellowship, Sociology Department, Boston College (5,000 USD).
- 2016 Summer Research Fellowship, Sociology Department, Boston College (5,000 USD).
- 2014 GCSC First-Year Fellowship, Global Change and Sustainability Center, University of Utah (27,000 USD).

### CONFERENCE PRESENTATIONS AND INVITED TALKS

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- 2025 **Huang, Xiaorui (Invited Presentation).** “Working Time, International Trade, and Global Climate Justice: A Longitudinal Analysis of Embodied Carbon Emissions.” Global Political Economy Workshop 2025, Singapore Management University, Singapore. Remote presentation.
- Huang, Xiaorui.** “Working Time and Global Climate Justice: A Cross-National Panel Analysis of Carbon Emissions Embodied in International Trade.” Paper presented at the Action for Climate Justice: Evidence from Social Science Workshop, Yale University, New Haven, CT, USA.
- Huang, Xiaorui.** “Working Time and Global Climate Justice: A Cross-National Panel Analysis of Carbon Emissions Embodied in International Trade.” Paper presented as part of a panel at the Annual Conference of the Eastern Sociological Society, Boston, MA, USA.
- 2024 **Huang, Xiaorui (Invited Presentation).** “Working Time and Carbon Dioxide Emissions in High-Income Countries: A Multidimensional Study,” Global Political Economy Workshop, University of British Columbia, Vancouver, Canada.
- Huang, Xiaorui (Invited Panelist).** The Presidential Panel on “Sociology and the Climate Crisis: Engaging Outward,” the Eastern Sociological Society Conference 2024, Washington, DC, USA.
- 2023 **Huang, Xiaorui.** “Harness the Co-Benefit and Avoid the Trade-off: The Complex Relationship between Income Inequality and Carbon Dioxide Emissions.” Paper presented as part of a panel on the Political Economy of

Human Ecology, at the XXVth International Conference of the Society for Human Ecology, Tucson, AZ, USA.

**Huang, Xiaorui.** “Uneven Decarbonization: The Multidimensional Relationships Between Renewable Energy Deployment and Carbon Dioxide Emissions in High-Income Nations.” Paper presented as part of a panel on Climate Change: Acting in the Present, Imagining the Future, at the Annual Meeting of the American Sociological Association, Philadelphia, PA, USA.

**Huang, Xiaorui.** “Not All Emissions Are Created Equal: Multidimensionality in Nations’ Greenhouse Gas Emissions and the Affluence/Emissions Nexus.” Paper presented as part of a panel on New Directions in Environmental Sociology at the XX ISA World Congress of Sociology, remote presentation.

**Huang, Xiaorui (Invited Presentation).** “Inequality, Life Expectancy, and Human Drivers of Climate Change.” Presented at National Science Foundation’s Partnerships for International Research and Education Project Workshop on Climate Risk and Childhood Inequalities in Low- and Middle-Income Countries, University of Pennsylvania.

**Huang, Xiaorui.** “Not All Emissions Are Created Equal: Multidimensionality in Nations’ Greenhouse Gas Emissions and the Affluence/Emissions Nexus.” Paper presented as part of a panel at the Eastern Sociological Society Conference 2023, Baltimore, MD, USA.

2021 **Huang, Xiaorui.** “How Does the Structure of Global Economy and Trade Affect Nations’ Responsibility for Climate Change Mitigation?” Paper presented as part of an environmental sociology roundtable session on Climate Change Mitigation & Adaptation at the Annual Meeting of the American Sociological Association, virtual conference.

2020 **Huang, Xiaorui.** “The Multi-Dimensionality of Nations’ Responsibilities for Climate Change Mitigation.” Paper accepted as part of an environmental sociology roundtable session at the Annual Meeting of the American Sociological Association, San Francisco, CA, USA. (cancelled due to COVID-19.)

**Huang, Xiaorui.** “How Does the Development of Renewable Energy Affect Global Climate Justice? A Cross-national Study.” Paper accepted as part of a critical dialogue session on Technology and Justice at the Annual Meeting of the Society for the Study of Social Problems, San Francisco, CA, USA. (cancelled due to COVID-19.)

Thombs, Ryan, and **Xiaorui Huang.** “The Growth Question: What the Past Tells Us about the Future and the Possibility of Green Growth?” Paper

presented at the Power/Dependency Workshop at the Institute for Research on World-Systems, University of California-Riverside, Riverside, CA, USA.

- 2019 Thombs, Ryan, and **Xiaorui Huang**. “Carbon Regimes: A Cross-National Study of the Economic Growth/CO2 Emissions, 1870-2014.” Paper presented as part of a roundtable at the Annual Meeting of the American Sociological Association, New York City, NY, USA.
- 2018 **Huang, Xiaorui**, and Andrew K. Jorgenson. “The Asymmetrical Effects of Economic Development on Consumption-Based and Production-Based Carbon Dioxide Emissions.” Paper presented as part of a panel at the XXIII International Conference of the Society for Human Ecology, Lisbon, Portugal.
- 2017 **Huang, Xiaorui**. “Ecologically Unequal Exchange, Climate Change, and Economic Recessions: the U.S. Experience 2000-2010.” Paper presented as part of a panel on Energy and Inequality of the Section on Environment and Technology at the Annual Meeting of the American Sociological Association, Montreal, Québec, Canada.
- 2016 **Huang, Xiaorui**. “The Intensity of the Ecologically Unequal Exchange during Economic Recessions in the United States.” Paper presented as part of a panel on Climate Change and Environmental Discourse at the Annual Meeting of the Society for the Study of Social Problems, Seattle, WA, USA.
- Huang, Xiaorui**. “Ecologically Unequal Exchange during the U.S. Economic Recessions.” Paper presented as part of a roundtable at the Annual Meeting of Eastern Sociological Society, Boston, MA, USA.

## **TEACHING EXPERIENCE**

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- 2026-Present Assistant Professor, Department of Sociology and Environmental Studies Program, Boston College.  
Environmental Sociology I
- 2022-2025 Assistant Professor, Department of Sociology, Drexel University.  
Global Climate Change and Society (cross-listed with the Environmental Studies & Sustainability Program)  
Globalization  
Research Design: Quantitative Methods  
Introduction to Sociology
- 2019-2022 Instructor, Sociology Department, Boston College.  
Environmental Sociology  
Introductory Sociology  
Society and Environmental Transformation

- 2016-2018     Teaching Assistant, Sociology Department, Boston College.  
                      Sociological Theory  
                      Statistics  
                      Select Topics in Environmental Studies
- 2015-2016     Lab Instructor, Core Curriculum, Boston College.  
                      Interdisciplinary courses:  
                      Global Implications of Climate Change  
                      Planet in Peril: The History and Future of Human Impacts on the Planet

## **FORMAL MENTORING**

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Dissertation Committee Member, Department of Sociology, Boston College  
 Viet Phan (ongoing)

## **PROFESSIONAL SERVICE**

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- 2026            Co-organizer for mini-conference on “Environmental Sociology: Transformation and Repair in Constraining Environments”, the Eastern Sociological Society Conference, Washington, DC, USA.
- 2025            Lead Co-organizer for mini-conference on “Environmental Sociology: Fostering Solidarity for Sustainability and Environmental Justice”, the Eastern Sociological Society Annual Conference, Boston, MA, USA.
- 2023            Co-organizer for mini-conference on “Environmental Sociology: Pursuing Dignity in A Changing Environment”, the Eastern Sociological Society Conference, Baltimore, MD, USA.
- 2019            Panel Presider, “Open Topic on Sociology of Development”, Section on the Sociology of Development, the Annual Meeting of the American Sociological Association, New York City, New York.
- 2014            Assistant to Managing Editor, *Sociological Perspectives*, Pacific Sociological Association.

## **DEPARTMENTAL, COLLEGE, AND UNIVERSITY SERVICE**

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- 2026-Present   Committee Member, Undergraduate Studies Committee & AI Policy Committee, Department of Sociology, Boston College
- 2024-2025     Committee Member, the Department of Sociology’s Committee on Student Awards, Drexel University



- 2022-2025      Co-Point Person of the Department of Sociology, the Social Science and Humanities Research Committee of Drexel University
- Committee Member, the College of Arts and Sciences' Committee on the Diversity, Equity, and Inclusion, Drexel University
- Committee Member, the Department of Sociology's Committee on the Diversity, Equity, and Inclusion, Drexel University
- 2018-2020      Graduate Student Representative to the Graduate Studies Committee, Sociology Department, Boston College.

## **RELATED PROFESSIONAL SKILLS AND TRAINING**

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Statistics and Data Science: Inter-university Consortium for Political and Social Research (ICPSR) Summer Program: Panel Data and Longitudinal Analysis (2023), Structural Equation Models with Latent Variables (2023), Time Series Analysis (2023), Modern Difference-in-Difference Designs (2024), Machine Learning (2024).

Other training: Multi-Regional Input-Output Analysis, Categorical Regression Analysis, Quantitative Data Management.

Software and Programming: Stata, Python, R.

Pedagogy: Apprenticeship in College Teaching Certificate Program, Boston College (2022).

Industrial Ecology: Industrial Ecology Open Online Program, the University of Freiburg (2021).

## **LANGUAGES**

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Fluent in English and Mandarin Chinese.

## **CURRENT PROFESSIONAL MEMBERSHIPS**

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American Sociological Association  
 Section on Environmental Sociology  
 Section on Global and Transnational Sociology  
 Section on Sociology of Development

Section on Political Economy of the World System  
Section on Inequality, Poverty, and Mobility

International Sociological Association

Research Committee 24: Environment and Society

Research Committee 9: Social Transformations and Sociology of Development

Eastern Sociological Society

Society for Human Ecology