

# Thomas Marlow

POSTDOCTORAL FELLOW · CENTER FOR INTERACTING URBAN NETWORKS (CITIES)

New York University Abu Dhabi, Abu Dhabi, United Arab Emirates

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## Research Interests

Environmental sociology, urban sociology, climate change, quantitative methods, computational methods, spatial methods, social networks

## Academic Positions

Center for Interacting Urban Networks (CITIES)

POSTDOCTORAL FELLOW

[NYU Abu Dhabi](#)

June 2020 - Present

## Education

Brown University

PH.D., SOCIOLOGY

- Dissertation: *Socioenvironmental Stratification in the Post-Industrial City*
- Committee: Dr. Scott Frickel (chair), Dr. John Logan, Dr. Margot Jackson
- Preliminary Exams: Urban Sociology and Environmental Sociology

[Providence, RI](#)

May 2020

Spatial Structures in the Social Sciences (S4) at Brown University

SPATIAL ANALYSIS CERTIFICATE

[Providence, RI](#)

May 2018

Brown University

M.A., SOCIOLOGY

- Thesis: *Socioenvironmental Succession: The Case of Rhode Island*

[Providence, RI](#)

May 2016

Illinois Wesleyan University

B.A., ENVIRONMENTAL STUDIES

- Minor in Chemistry

[Bloomington, IL](#)

May 2011

## Peer Reviewed Publications

Durable Change in U.S. Urban Mobility Networks, 2019–2022

**THOMAS MARLOW**, BRUNO ABRAHAO, AND KINGA MAKOVI

[Socius](#)

Forthcoming

Mobility patterns amplify neighborhood disparities in the spread of COVID-19

ANDRAS GYORGY, **THOMAS MARLOW**, BRUNO ABRAHAO, KINGA MAKOVI

- Available at: <https://doi.org/10.1017/nws.2023.6>

[Network Science](#)

2023

Parks, People, and Pollution: The Interactive Effects of Socioenvironmental Succession

TOLLEFSON, JONATHAN, SCOTT FRICKEL, SUMMER GONSALVES, **THOMAS MARLOW**

- Available at: <https://doi.org/10.1177/15356841231152616>

[City & Community](#)

2023

Non-transformative climate policy options decrease conservative support for renewable energy in the US

**MARLOW, THOMAS** AND KINGA MAKOVI

- Available at: <https://iopscience.iop.org/article/10.1088/1748-9326/acaf3c>

[Environmental Research Letters](#)

2023

Early Childcare and Education in a Post-Industrial Landscape: Inequalities in Proximity to Active and Relic Manufacturing in Metropolitan Providence, Rhode Island

JONATHAN TOLLEFSON, SCOTT FRICKEL, SUMMER GONSALVES, **THOMAS MARLOW**, ROBERT SUCSY, MICHAEL BYRNS, AND

MELISSA ORPEN-TUZ

- Available at: <https://doi.org/10.1089/env.2021.0121>

[Environmental Justice](#)

2022

- Future flooding increases unequal exposure risks to relic industrial pollution** *Environmental Research Letters* 2022  
**MARLOW, THOMAS**, JAMES ELLIOT, AND SCOTT FRICKEL  
 • Available at: <https://iopscience.iop.org/article/10.1088/1748-9326/ac78f7/meta>  
 • Select media coverage (links): [Arstechnica](#), [Truthout](#), [Phys.org](#)
- Neighborhood Isolation During the COVID-19 Pandemic** *Sociological Science* 2021  
**MARLOW, THOMAS**, KINGA MAKOVI, AND BRUNO ABRAHAO  
 • Available at: <https://sociologicalscience.com/articles-v8-9-170/>  
 • Media coverage (links): [The Boston Globe](#)
- Bots and online climate discourses: Twitter discourse on President Trump’s announcement of U.S. withdrawal from the Paris Agreement** *Climate Policy* 2021  
**MARLOW, THOMAS**, SEAN MILLER, AND J. TIMMONS ROBERTS  
 • Available at: <https://doi.org/10.1080/14693062.2020.1870098>  
 • Select media coverage (links): [Washington Post](#), [Scientific American](#), [The Guardian](#), [The BBC](#)
- Do Legacy Industrial Sites Produce Legacy Effects in Ethnic and Racial Residential Settlement?** *Sociological Forum* 2020  
**MARLOW, THOMAS**, SCOTT FRICKEL, AND JAMES R. ELLIOTT.  
 • Available at: <https://doi.org/10.1111/socf.12639>
- Automated Data Extraction from Historical City Directories: The Rise and Fall of Mid-Century Gas Stations in Providence, RI** *PLoS One* 2020  
 BELL, S., **MARLOW T.**, WOMBACHER K., HITT A., PARIKH N., ZSOM, A., FRICKEL, S.  
 • Available at: <https://doi.org/10.1371/journal.pone.0220219>
- Mining Spatio-Temporal Data on Industrialization from Historical Registries.** *J. of Environmental Informatics* 2019  
 BERENBAUM, D., DEIGHAN, D., **MARLOW, T.**, LEE, A., FRICKEL S., AND HOWISON.  
 • Available on arXiv: <https://arxiv.org/abs/1612.00992>
- Evaluation and Management Strategies for Per- and Poly- fluoroalkyl Substances (PFASs) in Drinking Water Aquifers: Perspectives from Impacted U.S. Northeast Communities.** *Environmental Health Perspectives* 2018  
 GUELFO J. L., **MARLOW T.**, KLEIN D. M., SAVITZ D. A., FRICKEL S., CRIMI M., AND SUUBERG E. M.  
 • Available at: <https://doi.org/10.1289/EHP2727>

## Other publications

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- Flood maps show US vastly underestimates contamination risk at old industrial sites** *The Conversation* August 1, 2022  
**MARLOW, THOMAS**, JAMES R. ELLIOTT, SCOTT FRICKEL  
 • Available at: [The Conversation](#)  
 • Select republications: [Houston Chronicle](#), [EcoWatch](#), [Alternet](#)

## Works in Progress

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- Neighborhood Poverty Trajectory and Access to Food Pantries** 2023  
 JENNIFER BOUEK, CHINYERE AGBAI, AND **THOMAS MARLOW** *Under Review*
- The Influence of Shareholder Networks on Corporate Climate Strategies** —  
**THOMAS MARLOW** *Manuscript in Preparation*  
 • Secured funding for two CITIES Summer 2023 Research Assistants
- Interacting Peer Effects in Solar Panel Adoption** —  
**THOMAS MARLOW**, KINGA MAKOVI *Manuscript in Preparation*  
 • Secured funding for two CITIES Summer 2023 Research Assistants
- Earnest Agitators: How journalists use Twitter to make industry critiques** —  
 LAURA GARBES AND **THOMAS MARLOW** *Manuscript in Preparation*

## Fellowships

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- Brown Superfund Research Program (NIEHS)** *Providence, RI* 2016 - 2020  
 GRADUATE TRAINEE

Institute at Brown for Environment and Society

FELLOW

[Providence, RI](#)

2016 - 2020

Spatial Structures in the Social Sciences (S4)

FELLOW

[Providence, RI](#)

2015 - 2020

- Student Paper Prize, May 2019
- 2017/2018 Senior Fellow of the Year

## Presentations

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Interacting Peer Effects on Solar Panel Diffusion

PANEL PRESENTATION AT THE INTERNATIONAL NETWORK FOR ANALYTICAL SOCIOLOGY ANNUAL MEETING

[Princeton University](#)

June 2023

Non-Transformative climate policy options decrease conservative support for renewable energy in the US

INVITED TALK FOR THE CLIMATE SOCIAL SCIENCE NETWORK, WORKING GROUP ON CRITICAL STUDIES OF CLIMATE MEDIA, DISCOURSE, AND POWER

[Online Livestream](#)

February 2023

Non-Transformative climate policy options decrease conservative support for renewable energy in the US

PANEL PRESENTATION AT THE INAUGURAL MEETING OF THE MENA NETWORK OF EXPERIMENTAL SOCIAL SCIENTISTS

[Abu Dhabi, UAE](#)

November 2022

Urban Mobility Networks during the COVID-19 Pandemic

PANEL PRESENTATION AT THE 6TH EUROPEAN CONFERENCE ON SOCIAL NETWORKS

[London, UK](#)

September 2022

Independent Policy Options Decreases Conservative Support for Renewable Energy

PANEL PRESENTATION AT THE ANNUAL CONFERENCE OF EXPERIMENTAL SOCIOLOGY

[Utrecht, Netherlands](#)

September 2022

Irrelevant Policy Options Decreases Conservative Support for Renewable Energy

ROUNDTABLE PRESENTATION AT THE ANNUAL MEETING OF THE AMERICAN SOCIOLOGICAL ASSOCIATION

[Los Angeles, CA](#)

August 2022

Future Flooding Increases Unequal Exposure Risks to Relic Industrial Pollution

INVITED TALK FOR THE FIRST STREET FOUNDATION

[Online Workshop Series](#)

February 2022

Neighborhood Isolation During the COVID-19 Pandemic

INVITED TALK FOR THE PLACEKEY DATA CONSORTIUM

[Online Livestream](#)

June 2021

Environmental Justice in the Post-Industrial Landscape

PAPER PRESENTATION AT THE ANNUAL MEETING OF THE EASTERN SOCIOLOGICAL ASSOCIATION

[Philadelphia, PA](#)

February 2020

Mining Socio-environmental Hazard Data from Historical Directories

PAPER PRESENTATION AT THE ANNUAL MEETING OF THE SUPERFUND RESEARCH PROGRAM

[Sacramento CA](#)

December 2018

Disentangling the Industrial and Demographic Dynamics of Environmental Inequality Formation in Rhode Island

PAPER PRESENTATION AT THE ANNUAL MEETING OF THE AMERICAN SOCIOLOGICAL ASSOCIATION

[Philadelphia, PA](#)

August 2018

Analyzing Industrial neighborhoods in Rhode Island

PAPER PRESENTATION AT THE ANNUAL INTERNATIONAL CONFERENCE ON COMPUTATIONAL SOCIAL SCIENCE

[Evanston, IL](#)

July 2018

Hazardous Conditions: Industrial growth and environmental inequality in Rhode Island, 1953-2016

PAPER PRESENTATION AT THE ANNUAL MEETING OF THE AMERICAN ASSOCIATION OF GEOGRAPHERS

[New Orleans, LA](#)

July 2018

## Disentangling the demographic and spatial dynamics of environmental inequality formation

PAPER PRESENTATION AT THE ANNUAL MEETING OF THE EASTERN SOCIOLOGICAL SOCIETY

*Baltimore, MA*

*February 2018*

## Analyzing Chemical Mixtures in Rhode Island: A Machine Learning Approach

PAPER PRESENTATION AT THE ANNUAL MEETING OF THE SUPERFUND RESEARCH PROGRAM

*Philadelphia, PA*

*December 2017*

## The Benefits of Research Translation to Environmental Research: An Example Featuring Perfluoroalkyl Acid (PFAA) Fate and Transport

INVITED TALK WITH DR. JENNIFER GUELFO AT THE NATIONAL ENVIRONMENTAL HEALTH SCIENCE FEST

*Durham, NC*

*December 2016*

## Teaching

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### S4's Spring/Winter GIS Institute

INSTRUCTOR

- Introduction to Spatial Statistics
- Coursework and lab elements were developed with open source resources including R, GeoDa and QGIS

*Brown University*

*Jan. 2016 - May. 2020*

### Statistics for Social Research

TEACHING ASSISTANT

- Instructor: Dr. David Lindstrom, Fall 2015
- Instructor: Dr. Elizabeth Fussell, Spring 2016.

*Brown University*

*Fall 2015 - Spring 2016*

## Professional Associations

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### Climate Social Science Network

MEMBER

*U.S.A*

*2020 - Present*

### American Sociological Association

MEMBER

- Section on Community and Urban Sociology
- Section on Environmental Sociology

*U.S.A*

*2015 - Present*

### American Association of Geographers

MEMBER

*U.S.A*

*2017 - Present*

### Eastern Sociological Society

MEMBER

*U.S.A*

*2017-2020*

## Skills

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**Statistical Software** R, Python, and familiarity with STATA

**GIS** ArcGIS, QGIS, GeoDa, Leaflet, R, and Python