JONATHAN TOLLEFSON

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ACADEMIC APPO	University of Chicago, Chicago, IL
	Postdoctoral Fellow, Mansueto Institute for Urban Innovation and Department of
	Sociology
EDUCATION	
2019 - 2025	Brown University, Providence, RI
	Ph.D., Sociology
2016 - 2018	University of Vermont, Burlington, VT
	M.S., Rubenstein School of Environment and Natural Resources
2011 - 2015	Brown University, Providence, RI
	Sc.B. with honors, Social Analysis and Research
PUBLICATIONS	
2025	Tollefson, J., Frickel, S., Gore, C., and Helgeson, J. Community resilience planning:
2023	What new methods reveal about the formation and transformation of a field. WIREs
	Climate Change 16(4): e70015.
	0 (7
2024	Candipan, J. and Tollefson, J. Machine learning and large-scale data for understanding
	urban inequality. Invited chapter for The Oxford Handbook of the Sociology of Machine
	Learning (Borch, C. and Pardo-Guerra, J.P., eds.).
2023	Tollefson, J., Frickel, S., Gonsalves, S., and Marlow, T. Parks, people and pollution: A
2023	relational study of socioenvironmental succession. City and Community special issue,
	"Environmentalizing Urban Sociology" 22(4): 286-307.
2023	Tollefson, J., Frickel, S., Gonsalves, S., Marlow, T., Sucsy, R., Byrns, M., and Orpen-
	Tuz, M. Early childcare and education in a post-industrial landscape: Inequalities in
	exposure to active and relic manufacturing in metropolitan Providence, Rhode Island. Environmental Justice 16(4): 309-320.
	Environmental Justice 10(4). 507-520.
2022	Frickel, S., and Tollefson, J. When environmental inequality racialized: Historical
	evidence from Providence, Rhode Island. Socius 8: 1-14.
2021	Tollefson, J., Frickel, S, and Restrepo, M. Feature extraction and machine learning
2021	techniques for identifying historic urban environmental hazards: New methods to locate
	lost fossil fuel infrastructure in US cities. PLOS ONE 16(8): e0255507. [Dissertation
	paper 1]
	• Finalist for the 2022 John Odland Award, American Association of
	Consumption Contint Augloria and Madeline Consum

Geographers, Spatial Analysis and Modeling Group

2020	Tollefson, J. and Panikkar, B. Contested extractivism: Impact assessment, public
	engagement, and environmental knowledge production in Alaska's Yukon-Kuskokwim
	Delta. Journal of Political Ecology 27(1): 1166-1188.

 2021 Graduate Student Paper Award, Rural Sociological Society, Natural Resources RIG

Tollefson, J. <u>Post-Fukushima discourse in the US press: Quantified knowledge, the technical object, and a panicked public. *Public Understanding of Science* 29(7): 670-687.</u>

Panikkar, B. and **Tollefson, J.** <u>Land as material, knowledge, and relationships: Resource extraction and subsistence imaginaries in Bristol Bay, Alaska.</u> *Social Studies of Science* 48(5): 715-739.

UNDER REVIEW AND SUBMITTED

2018

R+R	Tollefson, J.	The racialization of	environmental inec	quality in US	cities, 1880-1930.
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- 2023 IPUMS USA Student Research Award
- 2024 Brent K. Marshall Student Paper Award, Society for the Study of Social Problems, Environment and Technology Division
- 2024 Student Paper Award, ASA Environmental Sociology Section Honorable Mention
- 2024 Candace Rogers Award, Eastern Sociological Society Honorable Mention
- 2024 Graduate Student Paper Prize, Spatial Structures for the Social Sciences, Brown University
- Featured in **IBES** spotlight article

CA. Apr. 7-9, 2022).

R+R Tollefson, J., Frickel, S., Helgeson, J., and Gore, C. Adapting to adaptation: Conceptual development and field formation in community resilience planning.

R+RDemortain, D., Frickel, S., Beck, S., Gray, I., Grundmann, R., Hannud Abdo, A., Kinniburgh, F., Kitson, D., Matzner, N., Rea, C., **Tollefson, J.**, and Wetts, R. Computational science and technology studies? Assembling STS theory-methods packages with computation.

MANUSCRIPTS

MIAINUSCIII 13		
Working Tollefson, J. The environmental dimensions of HOLC redlining decisions		
Paper		
Working Paper	Tollefson, J. Industrial geography and urban inequality formation in the early 20th century.	
In Progress	Frickel, S., Demortain, D., Beck, S., Gray, I., Grundmann, R., Hannud Abdo, A., Kinniburgh, F., Kitson, D., Matzner, N., Rea, C., Tollefson, J ., and Wetts, R. Environmental knowledge and politics.	
In Progress	Tollefson, J. Suburban development and agricultural land conversion: New landscapes of environmental health inequality. <i>Delivered at Pacific Sociological Association (Sacramento,</i>	

PUBLIC SCHO	LARSHIP		
2023	Tollefson, J. Redlining and segregation in Providence, RI. Essay for Mapping Inequality: Redlining in New Deal America. Richmond, VA: University of Richmond Digital Scholarship Lab.		
2021	Tollefson, J. and Frickel, S. Gasworks, lost and found. Urban Omnibus. July 1.		
2016	Tollefson, J. and Urso, M. <u>Black Lives Matter at St. Patrick's Day Parade.</u> Op-ed in the <i>Providence Journal</i> . April 2.		
AWARDS			
2024	Brent K. Marshall Student Paper Award, Society for the Study of Social Problems, Environment and Technology Division		
2024	Candace Rogers Award, Eastern Sociological Society - Honorable Mention		
2024	ASA Environmental Sociology Section Student Paper Award – Honorable Mention		
2024	Graduate Student Paper Prize, Spatial Structures for the Social Sciences, Brown University		
2023	IPUMS USA Student Research Award		
2022	Finalist for the John Odland Student Paper Award, American Association of Geographers, Spatial Analysis and Modeling Group		
2021	Graduate Student Paper Award, Rural Sociological Society, Natural Resources RIG		
2021	First Place Poster Award, Dellinger Symposium (Superfund Research Program of the NIEHS)		
FELLOWSHIPS	AND GRANTS		
2025	 Socio-Environmental Knowledge Commons (SEEKCommons) Research Fellowship Research fellowship to support the creation of public-facing data on historical urban built environments. Supported by National Science Foundation award #2226425 		
2024 - 2025	Interdisciplinary Opportunities Fellowship (full funding, 2024-25 academic year), Institute at Brown for Environment and Society		
2024	Research Fellow: Community Resilience and Risk (Jan. – Dec. 2024), Georgetown University / NIST-PREP Georgetown University / National Institute of Standards and Technology		
2024	Joukowski Summer Research Award (\$1,000), Brown University		
2023 - 2024	Asa and Horace Learned Fellowship (full funding, 2023-24 academic year), <i>Brown University</i>		
2023	National Institute of Standards and Technology Professional Research Experience Program (NIST-PREP) Fellowship (full funding, Jan. – Jun. 2023)		

2023	Graduate Research, Training, and Travel Award (\$3,145), Institute at Brown for Environment and Society		
2022	Finalist (not awarded) – Raskin Scholarship, Earth Science Information Partners		
2021	NIEHS SRP Traineeship (full funding, Jan. 2021 – Dec. 2021) • Superfund Research Program of the National Institute for Environmental Health Sciences. Supported by NIEHS grant P42ES013660.		
2021	Collaborative Research Award (\$2,000), Brown University Department of Sociology		
2020	Collaborative Research Award (\$2,000), Brown University Department of Sociology		
2019 - 2020	Graduate Fellowship (full funding, 2019-20 academic year), Brown University		
2016 - 2018	Governance of Large Mine Permitting Research Fellowship (full funding, 2016-17 and 2017-18 academic years) • Supported by National Science Foundation award #1642226 (PI: Bindu Panikkar).		
2017	Florence Tinker Matteossian Memorial Grant (\$4,214), University of Vermont		
2017	Graduate Student Senate Mini-Grant, University of Vermont		
2017	Rubenstein Graduate Student Association Mini-Grant, University of Vermont		
2013	Karen T. Romer Undergraduate Teaching and Research Award (\$3,000), Brown University		
Travel Grants	 2024: Disaster Research Center Workshop Travel Grant, University of Delaware Disaster Research Center 2021: Dellinger Symposium Travel Award, NIEHS Superfund Research Program 2025, 2024: International conference travel grant, Brown University 2025, 2024, 2023, 2022, 2021: Graduate School Travel Grant, Brown University 2025, 2024, 2023, 2022, 2021: Sociology Dept. Travel Grant, Brown University 2022: GSC Travel Grant, Brown University 		
	NTATIONS AND WORKING GROUPS		
2024	Keynote lecture. What historic maps reveal about racial-environmental inequality in US cities. <i>Center for Urban and Regional Analysis Summer Speaker Series</i> . Ohio State University, Columbus, OH, and Online. Jun. 14.		
2024	Invited lecture. Environmental risk and the reorganization of urban inequality in the late 19th and early 20th century. <i>Spatial Structures in the Social Sciences, 2024 Graduate Fellow Lecture.</i> Providence, RI. Apr. 26.		
2023	Invited lecture. The development and transformation of community resilience planning research: Insights from domain-topic models with chained dimensions. <i>NIST Applied Economics Office Research Seminar Series</i> . Washington, DC. Nov. 3.		

2023	Invited panelist. The environmental dimensions of urban inequality, 1880-1930. <i>Spatial Data Science Symposium</i> . Online. Sept. 6.
2022	Workshop presentation. Energy geography and urban inequality: Computational techniques for historical research. <i>Computational Environmental STS Working Group (Laboratoire Interdisciplinaire Sciences Innovations Sociétés, Paris)</i> . Paris, France. Jul. 10-13.
2020	Workshop presentation. Manufactured gas and historic environmental inequality. <i>Urban Theory and Data Lab (Harvard University)</i> . Cambridge, MA. Oct. 29.
2017	Invited lecture. Land use, power, and knowledge at the Northern resource frontier. Rubenstein School of Environment and Natural Resources Graduate Symposium (University of Vermont). Burlington, VT. Oct. 13.

WORKSHOPS AND PANELS ORGANIZED

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2025	Historical and environmental foundations of urban inequality: Insights from new		
	methodological assemblages. Panel organizers: Jonathan Tollefson and Katherine A.		
	Thomas. Society for the Advancement of Socio-Economics. Montreal, QC. Jul. 9-12. (Session		
	canceled due to scheduling conflict).		

2021 – present Environmental Sociology Faculty-Student Workshop, *Brown University*.

CONFERENCE PRESENTATIONS			
2025	Nature, built environments, and risk in HOLC "redlining" decisions. American Sociological		
	Association. Chicago, IL. Aug. 8-12.		

2025	Socio-environmental foundations of neighborhood segregation in US cities: New
	historical evidence. Society for the Advancement of Socio-Economics. Montreal, QC. Jul. 9-12.

2025	The environmental dimensions of HOLC "redlining" decisions. Population Association of
	America. Washington, DC. Apr. 10-13.

2024	Environmental risk and the reorganization of urban inequality in the late 19th and early
	20th centuries. Society for the Study of Social Problems. Montreal, QC. Aug. 9-11. (Paper
	accepted, session canceled).

2024	Siloed Interdisciplinarity?: A Multi-level Computational Text Analysis of Community
	Resilience Planning. American Sociological Association. Montreal, QC. Aug. 9-13.

2024	Community resilience planning: What new methods reveal about the formation and
	transformation of a field. Disaster Research Center 60th Anniversary Workshop. Newark, DE.
	May 2-5.

2024 Urban environmental inequality from 1880 to 1930. *Population Association of America*. Columbus, OH. Apr. 17-20.

The development and structure of community resilience planning research. *Eastern Sociological Society*. Washington, DC. Feb. 29 – Mar. 3.

Urban fossil fuel production and the changing scale of racial segregation, 1880-1930. International Association of Public Health Scholars. Baltimore, MD. Oct. 2-5. 2023 Burns, A., and Tollefson, J. Inequality in the effects of pesticide exposure on infant health. American Sociological Association. Philadelphia, PA. Aug. 17-21. 2023 How industry segregated cities: Using computational data extraction to reexamine the formation of early-20th century segregation. American Sociological Association. Philadelphia, PA. Aug. 17-21. (Paper accepted, could not attend due to scheduling conflict). 2023 Burns, A., and Tollefson, J. Inequality in the effects of pesticide exposure on infant health. Population Association of America. New Orleans, LA. Apr. 12-15. 2023 Environmental inequality and the changing scale of urban segregation in the early 20th century. Pacific Sociological Association. Bellevue, WA, Mar. 30 – Apr. 2. 2023 What was the role of environmental risk in the early formation of neighborhood-level segregation? American Association of Geographers. Denver, CO. Mar. 23-27. 2023 Tollefson, J. and Silberstein, S. Right-wing extremism online: A quantitative and critical discourse analysis of the Parler website. American Association for Applied Linguistics. Portland, OR. Mar. 18-21. 2022 Brownfields and green spaces: Neighborhood change and urban park access in a postindustrial city. American Sociological Association. Los Angeles, CA. Aug. 5-9. 2022 Frickel, S., and Tollefson, J. When environmental inequality racialized: Evidence from a historical case study. American Sociological Association. Los Angeles, CA. Aug. 5-9. 2022 Agricultural land conversion and new geographies of suburban environmental risk. Pacific Sociological Association. Sacramento, CA. Apr. 7-9. 2022 Gastown: Fossil fuels and the changing nature of urban environmental inequality at the turn of the 20th century. Eastern Sociological Society. Boston, MA. Mar. 10-13. 2022 New methods to locate historic fossil fuel infrastructures: How computational techniques can illuminate 19th century urban environmental hazards. American Association of Geographers. New York, NY and online. Feb. 25 – Mar 1. Presented as part of John Odland Award session. 2021 Urban environmental inequality in the 19th century and the toxic legacy of the manufactured gas industry: Unearthing early fossil fuel infrastructure in American cities (poster). Dellinger Symposium of the Superfund Research Program. Apr. 28. Awarded - First Place Poster Award 2021 Urban environmental inequality and the toxic legacy of the manufactured gas industry: Unearthing 19th century fossil fuel infrastructure in American cities. Pacific Sociological Association. Online. Mar. 17-21.

2018	Mining, public engagement, and contentious land imaginaries in Bristol Bay and the Yukon-Kuskokwim Delta, Alaska. <i>American Association of Geographers</i> . New Orleans, LA. Apr. 10-14.
2017	Knowledge, sovereignty, and resource extraction in rural Alaska: A case study of the Donlin Gold public comment process. <i>ArcticNet Annual Scientific Meeting</i> . Quebec City, QC. Dec. 11-15.
2017	Land as material, habitat and survival: Resource materiality and mining in Bristol Bay and the Yukon-Kuskokwim Delta, Alaska. <i>Society for the Social Studies of Science</i> . Boston, MA. Aug. 30 – Sept. 2.
2016	Resource materiality and resistance to mineral development in Bristol Bay, Alaska. ArcticNet Annual Scientific Meeting. Winnipeg, MB. Dec. 5-9.

TEACHING EXPERIENCE UNIVERSITY TEACHING

University Teaching		
2025	Brown University, Environmental Studies / "Environmental justice and the city" / Instructor of Record	
2025, 2024, 2023, 2022	I.E. Business School and Brown University School of Professional Studies / "Society and Culture in the Age of Globalization" / Teaching Associate / Prof. Meghan Kallman	
2022	Brown University, Sociology / "Organizations and Society" / Teaching Assistantship / Prof. Rachel Wetts	
2020	Brown University, Sociology / "Methods for Interdisciplinary Environmental Research" / Teaching Assistantship / Prof. Rachel Wetts	
2018	University of Vermont, Environmental Studies / "Human Ecology, Health, and Sustainability in the Circumpolar Arctic" / Co-taught with Prof. Bindu Panikkar	
2017	University of Vermont, Rubenstein School of Environment and Natural Resources / "Social Processes and the Environment" / Teaching Assistantship / Prof. Cecilia Danks	
2017	University of Vermont, Environmental Studies / "Environmental Policy and Activism" / Teaching Assistantship / Prof. Trish O'Kane	
2016	University of Vermont, Rubenstein School of Environment and Natural Resources / "Race, Culture, and Natural Resources" / Teaching Assistantship / Prof. Clare Ginger	
Guest lecturing	2024: Brown University, Sociology / "The Geography of Urban Inequality" / Guest Lecturer / Prof. Jennifer Candipan	
	2022, 2021: Brown University, Environmental Studies / "Environmental Studies of Pollution" / Guest Lecturer / Profs. Meredith Hastings and Scott Frickel	

COMMUNITY TEACHING	
2015 - 2016	 Extraordinary Youth Ensemble (Providence, RI) / Administrator and teacher Developed curriculum and successfully obtained biannual grants from the Rhode Island State Council for the Arts to provide instrument and music history instruction to Providence area high school students.
2014 - 2015	Trinity Academy for the Performing Arts (Providence, RI) / Visiting Artist, Music Instruction
2014 - 2015	 Breakthrough Providence (Providence, RI) / Teacher, "Demonstration and Organizing" Developed original student-centered curriculum for 7th-9th grade students. Taught weekly lessons and advised student projects on the role of organizing in bringing about social and political change. Advised teaching assistant.
SERVICE	
2021 - 2025	Graduate Student Council (Brown University), Department of Sociology representative.
2025	Served on SSSP Environment & Technology Division award committee.
2024	Presider, "Urban Environments" roundtable session, <i>American Sociological Association</i> annual meeting. Montreal, QC. Aug. 9-13.
2023	Poster Judge, <i>International Association of Public Health Scholars</i> annual meeting. Baltimore, MD. Oct. 2-5.
2023	Presider, "Urban Sociology" panel session, <i>American Sociological Association</i> annual meeting. Philadelphia, PA. Aug. 17-21. (Could not attend due to scheduling conflict).
2023	Presider, "Environmental Justice" panel session, <i>Pacific Sociological Association</i> annual meeting. Bellevue, WA. Mar. 30 – Apr. 2.
2022	Served on Rural Sociological Society NRRIG award committee.
2022	"Getting to Know Brown and Rhode Island," panel presentation for incoming graduate students.
Ongoing	Peer review for American Sociological Review; City & Community; Public Understanding of Science; Population and Environment; The Extractive Industries and Society; Journal of Political Ecology; Journal of Computational Social Science; PLOS ONE.

AFFILIATIONS

2017 - 2018

INSTITUTES, LABS, AND WORKING GROUPS

2022 - present	Computational Environmental STS Working Group (Laboratoire Interdisciplinaire Sciences Innovations Sociétés Paris; Technical University Munich; Brown University)
2020 - present	Institute at Brown for Environment and Society (Brown University)
2020 - 2022	Urban Theory and Data Lab (Harvard University)

Gund Institute for Environment (University of Vermont)

PROFESSIONAL MEMBERSHIPS

American Sociological Association

 Section Memberships: Environmental Sociology; Community and Urban Sociology; Science, Knowledge, and Technology

American Association of Geographers

Eastern Sociological Society

Interdisciplinary Association for Population Health Science

Pacific Sociological Association

Population Association of America

Rural Sociological Society

Society for the Study of Social Problems

LANGUAGE AND TECHNICAL

Language: Japanese (rusty)

I use an array of computational tools in my research and teaching, including statistical analysis in R, Stata, and SPSS; spatial analysis in R, ArcGIS, and QGIS; automation, web scraping, text analysis, and machine learning applications in Python and R; text analysis using the <u>Sashimi</u> toolset; and qualitative analysis in NVivo and HyperResearch.