jonathan tollefson@brown.edu

www.jonathantollefson.com

Brown University Department of Sociology
Box 1916, 108 George St., Providence, RI 02912

EDUCATION	
2019 -	Brown University / Ph.D., Sociology • Qualifying exam in Environmental Sociology • Qualifying exam in Urban Sociology
2016 - 2018	University of Vermont / M.S., Rubenstein School of Environment and Natural Resources
2011 - 2015	Brown University / Sc.B., Social Analysis and Research (with honors)
P UBLICATIONS	
Under Review	Tollefson, J. , Frickel, S., Gore, C., and Helgeson, J. Community resilience planning: What new methods reveal about the formation and transformation of a field.
Under Review	Tollefson, J. , Frickel, S., Helgeson, J., and Gore, C. Adapting to adaptation: Conceptual development and field formation in community resilience planning.
2024	Candipan, J. and Tollefson, J. Machine learning and large-scale data for understanding urban inequality. Invited chapter for <i>The Oxford Handbook of the Sociology of Machine Learning</i> (Borch, C. and Pardo-Guerra, J.P., eds.).
2023	Tollefson, J. , Frickel, S., Gonsalves, S., and Marlow, T. <u>Parks, people and pollution: A relational study of socioenvironmental succession</u> . <i>City and Community</i> 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. <i>Environmental Justice</i> 16(4): 309-320.
2022	Frickel, S., and Tollefson, J. When environmental inequality racialized: Historical evidence from Providence, Rhode Island. <i>Socius</i> 8: 1-14.
2021	 Tollefson, J., Frickel, S, and Restrepo, M. Feature extraction and machine learning 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 – 2022 John Odland Award, American Association of 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. Awarded – 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.

MANUSCRIPTS

2018

Working Paper **Tollefson, J.** Environmental risk and the changing scale of urban inequality, 1880-1930. [Dissertation paper 2].

- Awarded 2023 IPUMS USA Student Research Award
- Awarded 2024 Brent K. Marshall Student Paper Award, Society for the Study of Social Problems, Environment and Technology Division
- Awarded 2024 Graduate Student Paper Prize, Spatial Structures for the Social Sciences, Brown University
- Honorable Mention 2024 Student Paper Award, ASA Environmental Sociology Section
- Honorable Mention 2024 Candace Rogers Award, Eastern Sociological Society
- Featured in <u>IBES spotlight article</u>

In Progress Tollefson, J. HOLC redlining as an environmental process.

Tollefson, J. Environmental roots of long-term trajectories of neighborhood inequality. [Dissertation paper 3].

Tollefson, J. Suburban development and agricultural land conversion: New landscapes of environmental health inequality. *Delivered at Pacific Sociological Association (Sacramento, CA. Apr. 7-9, 2022).*

Burns, A. and **Tollefson, J.** Inequality in the effects of pesticide exposure on infant health. *Delivered at Population Association of America (New Orleans, L.A. Apr. 12-15, 2023) and American Sociological Association (Philadelphia, P.A. Aug. 17-21, 2023).*

PUBLIC SCHOLARSHIP

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	Awarded – Brent K. Marshall Student Paper Award, Society for the Study of Social Problems, Environment and Technology Division
2024	Honorable Mention – Candace Rogers Award, Eastern Sociological Society

2024	Honorable Mention – ASA Environmental Sociology Section Student Paper Award
2024	Awarded – Graduate Student Paper Prize, Spatial Structures for the Social Sciences, Brown University
2023	Awarded – IPUMS USA Student Research Award
2022	Finalist – John Odland Student Paper Award, American Association of Geographers, Spatial Analysis and Modeling Group
2021	Awarded – Graduate Student Paper Award, Rural Sociological Society, Natural Resources RIG
2021	Awarded – First Place Poster Award, Dellinger Symposium (Superfund Research Program of the NIEHS)
FELLOWSHIPS A	and Grants
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 Professional Research Experience Program.
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	 NIST-PREP Fellowship (full funding, Jan. – Jun. 2023) National Institute of Standards and Technology Professional Research Experience Program.
2023	Graduate Research, Training, and Travel Award (\$3,145), Institute at Brown for Environment and Society
2022	Finalist – 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 2024: International conference travel grant, Brown University 2022: GSC Travel Grant, Brown University 2021: Dellinger Symposium Travel Award, Superfund Research Program of the NIEHS 2024, 2023, 2022, 2021: Graduate School Travel Grant, Brown University 2024, 2023, 2022, 2021: Sociology Dept. Travel Grant, Brown University 			
2024	Working group discussion: Computational affordances for STS. Computational			
	Environmental STS Working Group (Technical University of Munich). Munich, Germany. Jul. 22-25.			
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.			

Theory and Data Lab (Harvard University). Cambridge, MA. Oct. 29.

2020

Workshop presentation. Manufactured gas and historic environmental inequality. Urban

Invited lecture. Land use, power, and knowledge at the Northern resource frontier. Rubenstein School of Environment and Natural Resources Graduate Symposium (University of

2017

	Vermont). Burlington, VT. Oct. 13.
Conference	CE PRESENTATIONS
2025	The environmental dimensions of HOLC "redlining" decisions. <i>Population Association of America</i> . Washington, DC. Apr. 10-13.
2024	Environmental risk and the reorganization of urban inequality in the late 19th and early 20th centuries. <i>Society for the Study of Social Problems</i> . Montreal, QC. Aug. 9-11.
2024	Siloed Interdisciplinarity?: A Multi-level Computational Text Analysis of Community Resilience Planning. <i>American Sociological Association</i> . Montreal, QC. Aug. 9-13.
2024	Community resilience planning: What new methods reveal about the formation and transformation of a field. <i>Disaster Research Center 60th Anniversary Workshop</i> . Newark, DE. May 2-5.
2024	Urban environmental inequality from 1880 to 1930. <i>Population Association of America</i> . Columbus, OH. Apr. 17-20.
2024	The development and structure of community resilience planning research. <i>Eastern Sociological Society</i> . Washington, DC. Feb. 29 – Mar. 3.
2023	Urban fossil fuel production and the changing scale of racial segregation, 1880-1930. <i>International Association of Public Health Scholars</i> . Baltimore, MD. Oct. 2-5.
2023	Burns, A., and Tollefson, J. Inequality in the effects of pesticide exposure on infant health. <i>American Sociological Association</i> . Philadelphia, PA. Aug. 17-21.
2023	How industry segregated cities: Using computational data extraction to reexamine the formation of early-20th century segregation. <i>American Sociological Association</i> . 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. <i>Population Association of America</i> . New Orleans, LA. Apr. 12-15.
2023	Environmental inequality and the changing scale of urban segregation in the early 20th century. <i>Pacific Sociological Association</i> . Bellevue, WA, Mar. 30 – Apr. 2.
2023	What was the role of environmental risk in the early formation of neighborhood-level segregation? <i>American Association of Geographers</i> . 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. <i>American Association for Applied Linguistics</i> . Portland, OR. Mar. 18-21.
2022	Brownfields and green spaces: Neighborhood change and urban park access in a post-industrial city. <i>American Sociological Association</i> . Los Angeles, CA. Aug. 5-9.

2022	Frickel, S., and Tollefson, J. When environmental inequality racialized: Evidence from a historical case study. <i>American Sociological Association</i> . Los Angeles, CA. Aug. 5-9.
2022	Agricultural land conversion and new geographies of suburban environmental risk. <i>Pacific Sociological Association</i> . Sacramento, CA. Apr. 7-9.
2022	Gastown: Fossil fuels and the changing nature of urban environmental inequality at the turn of the 20th century. <i>Eastern Sociological Society</i> . Boston, MA. Mar. 10-13.
2022	New methods to locate historic fossil fuel infrastructures: How computational techniques can illuminate 19th century urban environmental hazards. <i>American Association of Geographers</i> . 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). <i>Dellinger Symposium of the Superfund Research Program</i> . 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. <i>Pacific Sociological Association</i> . 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. <i>ArcticNet Annual Scientific Meeting</i> . Winnipeg, MB. Dec. 5-9.

WORKSHOPS AND PANELS ORGANIZED

Environmental Sociology Workshop, Brown University. 2021 - present

> Brown University's Environmental Sociology Workshop brings together faculty and graduate students to discuss ongoing sociological research on environmental topics.

TEACHING EXPERIENCE

UNIVERSITY TEACHING

2025 Brown University, Institute at Brown for Environment and Society / "Environmental justice and the city" / Instructor of Record

2024	I.E. Business School and Brown University School of Professional Studies / "Society and Culture in the Age of Globalization" / Teaching Associate / Prof. Meghan Kallman
2023	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
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
2020	Brown University, Sociology / "Methods for Interdisciplinary Environmental Research" / Teaching Assistantship / Prof. Rachel Wetts • Advised individual student research proposals.
2018	University of Vermont, Environmental Studies / "Human Ecology, Health, and Sustainability in the Circumpolar Arctic" / Co-taught with Prof. Bindu Panikkar • Co-taught a seminar-style discussion course on the Arctic.
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 Fricke
COMMUNITY T	EACHING
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 weekly 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 - present	Graduate Student Council (Brown University), Department of Sociology representative.
2025	Will evaluate submissions for SSSP Environment & Technology Division paper award.
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	Evaluated submissions for Rural Sociological Society NRRIG paper award.
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; Journal of Political Ecology; Journal of Computational Social Science; PLOS ONE.

AFFILIATIONS

INSTITUTES.	LARS	AND	WORKING	GROUPS
INSTITUTES.	LADS	$\Delta I V U$	W OIMING	UKUUFS

2022 - present	Computational Environmental STS Working Group (Laboratoire Interdisciplinaire Sciences Innovations Sociétés Paris; Technical University Munich; Brown University)
2020 - present 2020 - 2022 2017 - 2018	Institute at Brown for Environment and Society (Brown University) 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 Sashimi toolset; and qualitative analysis in NVivo and HyperResearch.