

**Patrick Trent Greiner**  
***Curriculum vitae***

---

<https://www.patricktrentgreiner.com/>

Assistant Professor, Department of Sociology  
Faculty Affiliate, Center for Studies in Demography and Ecology  
Faculty Affiliate, Center for Statistics and the Social Sciences  
Data Science Fellow, eScience Institute  
University of Washington

239 Savery Hall  
University of Washington  
Seattle, WA 98195.

Phone: (206-543-4036)  
Email: ptgrein@uw.edu

**ACADEMIC APPOINTMENTS**

2024- Present Assistant Professor, Department of Sociology, University of Washington  
Faculty Affiliate- Center for Studies in Demography and Ecology;  
Center for Statistics and the Social Sciences;  
eScience Institute  
2018-2024 Assistant Professor, Department of Sociology, Vanderbilt University  
2018-2024 Assistant Professor, Public Policy Studies, Vanderbilt University

**DEGREES EARNED**

2018 PhD, Sociology, University of Oregon  
Committee members: Richard York (advisor and chair), John Bellamy Foster, Clare Rosenfeld Evans, Leigh Johnson (outside member; Department of Geography)  
2015 M.S., Sociology, University of Oregon  
Committee: Gregory McLauchlan (advisor and chair), Richard York  
2013 B.A., Public Affairs (Politics and Policy), Washington State University

**AWARDS AND HONORS**

2022-2024 C. Family Dean's Faculty Fellowship in Grand Challenges: Climate and Society, Vanderbilt University  
2022-2023 Dimensions AI, API/database access, Digital Science  
2017 Marquina Research Award, Department of Sociology, University of Oregon  
2017 SESYNC Graduate Student Research Fellowship  
2016 William R. Freudenburg Graduate Student Publication Award, Rural Sociological Society  
2016 Diversity Travel Scholarship, Rural Sociological Society  
2016 Publication Award, Department of Sociology, University of Oregon  
2013 University of Oregon Promising Scholar Award

## PUBLICATIONS

### Refereed Journal Articles

- Forthcoming Shtob, Daniel, Jordan Fox, and Patrick Trent Greiner “Planning for the Complexity and Uncertainty of Urban Socio-Environmental Futures.” *Nature Cities*.
- 2024 Greiner, Patrick Trent; Julius Alexander McGee; and Ethan P. Gibbons. “Financing the climate: How the process of financialization changes the relationship between CO2 emissions and GDP per capita.” *Nature and Culture*.
- 2024 McKane, Rachel G.; Patrick Trent Greiner; and David Pellow. “Beyond the State: Mutual Aid Networks as Transformative Environmental Justice.” *Antipode*.
- 2023 McKane, Rachel G.; David Pellow, and Patrick Trent Greiner. “Envisioning Disabled and Just Futures: Mutual Aid as an Adaptive Strategy to Climate Change and Ecological Disablement.” *Environmental Justice*. DOI: 10.189/env.2022.0104
- 2022 Greiner, Patrick Trent. “Colonial contexts and the feasibility of mitigation through transition: A study of the impact of historical processes on the emissions dynamics of nation-states.” *Global Environmental Change*. DOI: 10.1016/j.gloenvcha.2022.102609
- 2022 Greiner, Patrick Trent; Rachel G. McKane. “Does racism have inertia? A study of historic redlining’s impact on present-day associations between development and air pollution in U.S. cities”. *Environmental Research Letters*. DOI: 10.1088/1748-9326/ac9070
- 2022 Greiner, Patrick Trent; Richard York; and Julius Alexander McGee. “When are fossil fuels displaced? An exploratory inquiry into the role of nuclear electricity production in the displacement of fossil fuels” *Heliyon*. DOI: 10.1016/j.heliyon.2022.e08795
- 2021 Ergas, Christina; Patrick Trent Greiner; Julius Alexander McGee; and Matthew Thomas Clement. “Does Gender Climate Influence Climate Change?: The Multidimensionality of Gender Equity and its Countervailing Effects on the Carbon Intensity of Well-Being.” *Sustainability*, DOI: 10.3390/su13073956
- 2021 Besek, Jordan Fox; Patrick Trent Greiner; and Brett Clark. 2020. “WEB Du Bois and interdisciplinarity: A comprehensive picture of the scholar’s approach to natural science”. *Journal of Classical Sociology*, DOI: 10.1177/1468795X20938624
- 2021 McGee, Julius Alexander; Patrick Trent Greiner; and Carl Appleton. “Locked into Emissions: How Mass Incarceration Contributes to Climate Change.” *Social Currents*, DOI: 10.1177/2329496520974006.
- 2020 McGee, Julius Alexander; Patrick Trent Greiner; McKenzie Christensen; Christina Ergas; and Matthew Thomas Clement. 2020. "Can Gender Equality Help Mitigate

- Climate Change?: A Panel Analysis of the Moderating Effect of Gender Equality on the Relationship between Economic Growth and CO<sub>2</sub> Emissions". *Environmental Sociology*, 6(3): 254-267. DOI: 10.1080/23251042.2019.1675567
- 2020 Greiner, Patrick Trent. 2020. "Community Water System Privatization and The Water Access Crisis" *Sociology Compass*, 4(5): 1-13, DOI: 10.1111/soc4.12785
- 2020 Clement, Matthew Thomas; Nathan Pino; Patrick Trent Greiner; and Julius Alexander McGee. 2020. "Are the sustainable development goals interconnected? A quantitative analysis using cross-lagged models with reciprocal effects". *Sociology of Development*, 6(1): 91-115. DOI: 10.1525/sod.2020.6.1.91
- 2020 Greiner, Patrick Trent; Daniel A. Shtob; and Jordan Fox Besek. 2020. "Is Urbanization Good for the Climate? A Cross-County Analysis of Impervious Surface, Affluence, and the Carbon Intensity of Well-Being". *Socius*, 6: 1-16. DOI: 10.1177/2378023119896896
- 2020 Greiner, Patrick Trent; and McGee, Julius Alexander. 2020. "The Asymmetry of Economic Growth and the Carbon Intensity of Well-being". *Environmental Sociology*, 6(1): 95-106. DOI: 10.1080/23251042.2019.1675567
- 2019 Greiner, Patrick Trent. 2019. "Time, Power and Environmental Impact: A growth curve model of the relationship between temporal change and CO<sub>2</sub> emissions per capita". *Human Ecology Review*, 25(1): 43-68. DOI: 10.22459/HER.25.01.2019.03
- 2019 McGee, Julius Alexander; and Patrick Trent Greiner. 2019. "Renewable Energy Injustice: The Socio-environmental Implications of Renewable Energy Consumption", *Energy Research and Social Science*, 56. DOI: 10.1016/j.erss.2019.05.024
- 2019 Killion, Alexander; Adam Dixon; Jessica Glibert; Mario Torralba Viorreta; Patrick Trent Greiner; and Patrick Behrer. 2019. "Designing spatiotemporal multifunctional landscapes to support dynamic wildlife conservation". *Journal of Land Use Science*, 13(6): 615-630. DOI: 10.1080/1747423X.2019.1601780
- 2018 McGee, Julius Alexander; Patrick Trent Greiner. 2018. "Can Reducing Income Inequality Decouple Economic Growth From CO<sub>2</sub> Emissions?". *Socius*, 4: 1-11, DOI: 10.1177/2378023118772716
- 2018 Greiner, Patrick Trent; Richard York; and Julius Alexander McGee. 2018. "Snakes In the Greenhouse: Does Increased Natural Gas Use in The Electricity Sector Reduce CO<sub>2</sub> Emissions from Electricity Production". *Energy Research and Social Science*, 38: 53-57. DOI: 10.1016/j.erss.2018.02.001
- 2018 Greiner, Patrick Trent, and McGee Julius Alexander. 2018. "Divergent Pathways on the Road to Sustainability: A Multilevel Model of the Effects of Geopolitical Power on the Relationship between Economic Growth and Environmental Quality." *Socius*, 4: 1-15. DOI: 10.1177/2378023117749381.

- 2017 McGee, Julius Alexander; Christina Ergas; Patrick Trent Greiner; and Matthew Thomas Clement. 2017. "How do Slums Change the Relationship between Urbanization and the Carbon Intensity of Well-Being?" *PLoS ONE*, 12: 1-12. DOI: 10.1371/journal.pone.0189024
- 2016 Greiner, Patrick Trent. 2016. "Social Drivers of Water Utility Privatization in the United States: An examination of the presence of variegated neoliberal strategies in the water utility sector" *Rural Sociology* 81, no. 3: 387-406. DOI: 10.1111/ruso.12099  
(Recipient of the 2016 William R. Freudenburg Graduate Student Publication Award, Rural Sociological Society; Recipient of the 2016 Graduate Student Publication Award, Department of Sociology, University of Oregon).
- 2015 Clement, Matthew Thomas; Christina Ergas; and Patrick Trent Greiner. 2015. "The Environmental Consequences of Rural and Urban Population Change: An Exploratory Spatial Panel Study of Forest Cover in the Southern United States, 2001–2006." *Rural Sociology* 80, no. 1: 108-136. DOI: 10.1111/ruso.12056

### **Manuscripts Under Review**

- In Review McKane, Rachel G., and Patrick Trent Greiner. "Paving the Way: Redlining and Contemporary Transportation Emissions in U.S. Cities." Submitted.
- In Review Greiner, Patrick Trent. "Corporate Social Responsibility". First Revision.

### **Periodical Publications**

- 2021 Greiner, Patrick Trent. 2021. "How colonialism's legacy makes it harder for countries to escape poverty and fossil fuels today." *The Conversation*.
- 2020 McGee, Julius Alexander, and Patrick Trent Greiner. 2020. "Neoliberalism and the Climate Crisis." *Monthly Review*.
- 2020 McGee, Julius Alexander, and Patrick Trent Greiner. 2020. "Racial Justice is Climate Justice: Racial Capitalism and the Fossil Economy." *The Hampton Institute*.

### **Book Chapters and Encyclopedia Entries**

- 2024 Greiner, Patrick Trent. "Decoupling". In *The Edward Elgar Encyclopedia of Environmental Sociology*. Christine Overdeest, ed. Northampton, MA: Edward Elgar Publishing.
- 2023 Greiner, Patrick Trent; Julius Alexander McGee; and Richard York. "Social Inequalities, Environmental Crises, and the the STIRPAT Model". In *The Handbook of Inequality and the Environment*. Michael Long, Michael Lynch, and Paul Stretesky, eds. Northampton, MA: Edward Elgar Publishing.

### **Book Review**

- 2022 McGee, Julius Alexander; and Patrick Trent Greiner. “Histories of Racial Capitalism and the Dynamics of Capitalism as a System: A Book Review”. Review of *Histories of Racial Capitalism*. Destin Jenkins and Justin Leroy, eds. New York: Columbia University Press, 2021. *Monthly Review*.

## PRESENTATIONS

- 2024 Presenter, “Environment Making in a Changing World – The Implications of Urbanity, Environmental Change, and Deep Uncertainty for How we Approach Governance” Social Science History Association, Toronto, Ontario.
- 2024 Presenter, “Peering into a Paradox: Theorizing Socio-Technical Momentum and Its Challenges to Realization of Sustainable Transitions and Just Futures” Social Science History Association, Toronto, Ontario.
- 2024 Presenter, “Power Density, and the Convergence of Technical and Behavioral Challenges in Sustainable Transitions.” American Sociological Association, Montréal, Québec.
- 2024 Co-organizer and Presider, “Climate Sociology Regular Session: Perceptions, Beliefs, and the Use of Evidence” American Sociological Association, Montréal, Québec.
- 2024 Co-organizer, “Climate Sociology Regular Session: Politics and Culture in the Science and Evaluation of Climate Change” American Sociological Association, Montréal, Québec.
- 2024 Co-organizer, “Climate Sociology Regular Session: Finance and Policy as Opportunities and Barriers to Just Transitions” American Sociological Association, Montréal, Québec.
- 2023 Organizer and Presider, “Environmental Sociology Regular Session: From Mitigation to Adaptation in a Multi-scalar Environmental Sociology” American Sociological Association, Philadelphia, Pennsylvania.
- 2023 Co-Presenter “Looking At (more or less) the Same Sky: Re-engineering Naturalism for a Post-Positivist Sociology” American Sociological Association, Philadelphia, Pennsylvania.
- 2023 Co- Presenter, “Paving the Way: Redlining and Contemporary Transportation Emissions in U.S. Cities.” Urban Affairs Association, Nashville, Tennessee.
- 2023 Co- Presenter, “Paving the Way: Redlining and Contemporary Transportation Emissions in U.S. Cities.” Population Association of America, New Orleans, Louisiana.
- 2022 Co-presenter, “Beyond the State: Mutual Aid Networks as Transformative Environmental Justice.” American Sociological Association, Los Angeles, California.
- 2021 Co-presenter, “The Epoch of Necro-Ecology: The role of racialism in the development and maintenance of fossil capital.” American Sociological Association, Chicago, Illinois (virtual attendance).

- 2021 Special Session Co-Organizer and Presenter, “Racial Capitalism and the Environment: The Struggle for Total Liberation.” American Sociological Association, Chicago, Illinois (virtual attendance).
- 2021 Presenter, “Environmental Meaning of the Financial Turn: A Cross-National Study of the Finance-Economy-Environment Nexus.” International Sociological Association, RC02, Porto Alegre, Brazil (virtual attendance).
- 2019 Co-organizer, Symposium 18, “Temporal dynamics in landscape science: New applications and opportunities in social-ecological systems”. International Landscape Ecology Association world congress meeting, Milan, Italy
- 2019 Co-presenter, “Designing spatiotemporal multifunctional landscapes to support dynamic wildlife conservation”. International Landscape Ecology Association world congress meeting, Milan, Italy
- 2018 Round-table Participant, “Can Reducing Income Inequality Decouple Economic Growth From CO<sub>2</sub> Emissions?” American Sociological Association annual meeting, Philadelphia, PA
- 2017 Presenter, “Divergent Pathways on the Road to Sustainability: of the effects of geopolitical power on the relationship between economic growth and environmental health”. American Sociological Association, Montreal, ON
- 2017 Presenter, “Time, Power and the Environmental Kuznets Curve: A Growth Curve Model of The Relationship between Economic Growth, Political Power, and Carbon Dioxide Emissions Over Time”. Pacific Sociological Association, Portland, OR
- 2016 Round-table Participant, “Agricultural Drivers of Water Utility Pollution in the United States: An examination of the presence of variegated neoliberal strategies in the water utility sector” American Sociological Association annual meeting, Seattle, WA
- 2016 Presenter, “Social Drivers of Water Utility Privatization in the United States: An examination of the presence of variegated neoliberal strategies in the water utility sector”. Rural Sociological Society annual meeting, Toronto, Canada
- 2016 Presenter, “Ecological levels of analysis in a social world: Why socio-ecology requires a reframing of common sociological levels of analysis”. Society for Human Ecology annual meeting, Santa Ana, CA
- 2016 Presenter, “The Environmental Kuznets Curves and The World System: An examination of the effects of geopolitical power on environmental health”. Society for Human Ecology annual meeting, Santa Ana, CA

## INVITED TALKS

- 2024 Presenter “Peering into a Paradox: Theorizing socio-technical momentum and its challenges to realization of sustainable transitions and just futures” *What Happens to Sociology’s ‘Big*

*Questions' in an Age of Environmental Uncertainty*, Theory Section, American Sociological Association.

- 2024 Co-presenter, "The racial differentiation of space, and the spatial differentiation of emissions: Understanding the relationship between redlining, and primary drivers of CO<sub>2</sub> emissions in the U.S. cities." Climate Sociology Pipeline Workshop, Harvard University, Cambridge, Massachusetts.
- 2024 Co-presenter, "The racial differentiation of space, and the spatial differentiation of emissions: Understanding the relationship between redlining, and primary drivers of CO<sub>2</sub> emissions in the U.S. cities." Bailey College of the Environment, Wesleyan University, Middletown, Connecticut.
- 2023 Co-presenter, "Exploring the relationship between gender equity and socio-ecological relations: the relationship of gender equity to firm level emissions.", New Horizon's in Conservation, Yale School of the Environment, New Haven, Connecticut.
- 2023 Presenter, "The racial differentiation of space, and the spatial differentiation of the carbon intensity of well-being: Understanding the relationship between redlining, and primary drivers of CO<sub>2</sub> emissions in the U.S. cities.", Student National Medical Association, Vanderbilt University Medical Center, Nashville, Tennessee.
- 2023 Presenter, "The racial differentiation of space, and the spatial differentiation of emissions: Understanding the relationship between redlining, and primary drivers of CO<sub>2</sub> emissions in the U.S. cities.", Department of Sociology, Vanderbilt University, Nashville, Tennessee.
- 2023 Panelist, "Climate Change 101 Panel" Annual Nashville Youth Climate Summit, Nashville, Tennessee.
- 2022 Presenter, "Tuning the Policy Clock to Scales Outside of the Policy Box: Policy Scoping for Adaptive Mitigation Across Socio-Ecological, Technical, and Geological Scales" Geological Society of American, Denver, Colorado.
- 2021 Presenter, "Renters on the Earth: an exploration of the relationship between homeownership and carbon dioxide emissions. Louisiana State University, Department of Sociology.
- 2021 Co-presenter, "From Slow-Violence to Slow-Death: On the Development of Necro-Ecologies in the Anthropocene." Geological Society of America, Portland, Oregon.
- 2021 Presenter, "Histories of Inequality, Legacies of Pollution: an exploration of the ties between colonial pasts, development, and emissions. University of British Columbia- Okanagan, Department of History and Sociology.
- 2021 Presenter, "Does Gender Climate Influence Climate Change?: The Relationship of Gender Equity to National CO<sub>2</sub> Emissions, and its Countervailing Effects on the Carbon Intensity of Well-Being. Vanderbilt University, Vanderbilt Institute for Energy and Environment.

- 2020 Presenter, “Does Gender Climate Influence Climate Change?: The Relationship of Gender Equity to National CO<sub>2</sub> Emissions, and its Countervailing Effects on the Carbon Intensity of Well-Being. Stanford University, Department of Earth System Science.
- 2019 Panel Participant, “Panel of New Faculty in ‘Day of the Documents: Spend the Day Creating Your Academic Job Market Materials’”- Organized by Ruth Schemmer, Vanderbilt University
- 2017 Presenter, "Divergent Pathways on the Road To Sustainability: A multilevel model of the effects of geopolitical power on the relationship between economic growth and environmental health". University of Oregon, Department of Sociology

### **HACKWEEK/WORKSHOPS**

- 2024 Participant (“Floater”), D4 Hack Week: Disasters, Demography, Disparities, and Decisions, University of Washington, Seattle, Washington

### **TEACHING EXPERIENCE**

#### **Courses Taught**

##### University of Washington

Environmental Justice (2024)

##### Vanderbilt University

Environmental Justice and Inequality (2020; 2022; 2023; 2024)

Social Contexts of Public Policy (2020; 2022; 2023; 2024)

Environment and Society (2018, 2019, 2020; 2022)

Graduate Statistics Seminar- Hierarchical Linear Modeling (2024)

##### University of Oregon

Social Science Statistics (2018)

Social Research Methods (2017)

#### **Graduate Teaching Fellowships**

Social Science Statistics (2016; 2017; 2018)

Development of Sociology (2016)

Urban Sociology (2015; 2016)

Social Research Methods (2015; 2017)

American Society (2014; 2015)

Introduction to Sociology (2014)

Social Inequality (2013; 2014)

Environment and Society (2018)

### **RESEARCH TRAINING AND DEVELOPMENT**

#### **Dissertation Committees, Vanderbilt University**

Kaelee Belletto (Committee co-chair- 2022 to present)

Darwin Baluran (Committee member- 2022)

Ethan Gibbons (Committee member- 2022)



Lacey Satcher (Committee member- 2021)  
 Rachel McKane (Committee member- 2020)

### **Master's Theses, Vanderbilt University**

Farah Hamouda (Committee chair, 2023- present)  
 Brittany Rose (Committee chair, 2023- present)  
 Ethan Gibbons (Committee member, 2020)  
 Kayla Anderson (Committee member, 2020)

### **Special Area Exam Committees, Vanderbilt University**

Kaelee Belletto (2<sup>nd</sup> reader, Environmental Sociology; Sociology of Science- 2021)  
 Meagan Rainock (2<sup>nd</sup> reader, Crime, Law, and Deviance- 2021)  
 Darwin Balarun (2<sup>nd</sup> reader, Social Demography- 2020)  
 Ethan Gibbons (2<sup>nd</sup> reader, Conservatism and Energy/ Food Systems- 2019)  
 Ethan Gibbons (2<sup>nd</sup> reader, Environmental Sociology- 2019)

### **Undergraduate Honors Theses, Vanderbilt University**

Alyssa Questell (Chair, Sociology, Biomedical Engineering, 2023)  
 Joella Hartzler (Chair, Sociology, 2021)  
 Seungyun Lee (Chair, Sociology, 2020)  
 Nora Barrett (Chair, Sociology, 2020)  
 Andrew Harwell (Reader, Sociology, 2020)

## **PROFESSIONAL TRAINING**

2021	Network Analysis II. Social Science Research Methods Summer School. National University of Singapore. Singapore.
2021	Network Analysis I. Social Science Research Methods Summer School. National University of Singapore. Singapore.
2019	Bayesian Statistics Summer Institute. SESYNC, Annapolis, MD
2017	Computational Methods Summer Institute. SESYNC, Annapolis, MD
2014	Applied Longitudinal Data Analysis Workshop: multilevel models for change, model fitting, time-varying covariates, and non-linear growth. Center for Assessment Statistics and Evaluation, University of Oregon, Eugene, OR
2013	Teaching Challenging Materials Related to Identity, University of Oregon Graduate School Center on Diversity and Community. Eugene, OR

### **Research Assistantships**

2017-2018	Research Assistant to Dr. Dreiling and Dr. Sapinski, University of Oregon
2013	Research Assistant, Beyond Toxics, Eugene, Oregon
2012-2013	Research Assistant to Dr. Daniel Jaffee, Washington State University

## **SERVICE**

### **Vanderbilt University Department of Sociology**

2022-2023	Member, Faculty Recruitment Committee
2022-2023	Member, Website, Publications, Speakers, and Nominations Committee
2020-2021	Member, Undergraduate Program Committee
2019-2020	Member, Undergraduate Program Committee

2018-2019 Member, Graduate Program Committee

**Vanderbilt University, College of Arts and Sciences**

2020 Advisor, Mayfield Experience Project, “Bursting the Bubble”  
 2019 Judge, Undergraduate Student Research Fair  
 2019 Judge, Three Minute Thesis (3MT) Competition  
 2019 Advisor, Mayfield Experience Project, “Conserving the College Experience”

**To the Profession**

2024 Organizer, Demography of Environmental Crises, Population Association of America, District of Columbia  
 2024 Program Committee Member, Population, Development, and Environment Section, Population Association of America, District of Columbia.  
 2024 Organizer, Climate Sociology Regular Session, American Sociological Association, Montréal, Québec.  
 2024 Award Committee Member, Environmental Sociology Section, American Sociological Association.  
 2023 Organizer, Environmental Sociology Regular Session, American Sociological Association, Philadelphia, PA.  
 2020 Award Committee Member, Animals and Society Section, American Sociological Association.

Reviewer for the following Journals: American Sociological Review, American Journal of Sociology, Theory and Society, Environmental Sociology, Sociology of Development, Socius, Journal of Health and Social Behavior, Human Ecology Review, Energy Research and Social Science; Energy Policy, Sustainability, Global Transitions, Population and Environment, Environmental Research Letters, Environmental Justice, Work and Occupations, Society and Animals, Scientific Reports.

**University of Oregon Department of Sociology**

2016-2017 Graduate Student Forum Advocate, Department of Sociology, University of Oregon (elected position)  
 2013-2015 Graduate Teaching Fellows Federation Representative, Department of Sociology, University of Oregon (elected position)

**Extra-Academic Service**

2023- Present Nashville- Davidson County Metropolitan Solid Waste Region Board Member  
 2022- Present Nashville Environmental Justice Initiative Steering Committee Member  
 2016- 2018 Graduate Employee of Color Caucus- Co-chair  
 2015 Eugene Chapter NAACP primary and secondary school tutor of social science, history, mathematics, and natural science.  
 2015- 2016 Graduate Teaching Fellows Federation- VP of Member Communications (elected position)

**PROFESSIONAL MEMBERSHIPS**

2015-Present American Sociological Association

Section Memberships: *Environmental Sociology, Political Economy of the World System, Science, Knowledge, and Technology Studies, Racial and Ethnic Minorities, Animals and Society, Sociology of Development, Marxist Sociology.*

2015-Present	Society for Human Ecology
2014-2018	Rural Sociological Society
2021-2024	Geological Society of America
2022-Present	Population Association of America
2024- Present	Social Science History Association