

**Patrick Trent Greiner**  
*Curriculum vitae*

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

Assistant Professor of Sociology  
Assistant Professor of Public Policy Studies  
Dean's Faculty Fellow for Grand Challenges in Climate and Society, 2022-2024  
Department of Sociology  
Vanderbilt University

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Nashville, TN 37212.

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## **DEGREES EARNED**

- 2018 PhD, Sociology, University of Oregon  
Dissertation: "Growth, Power and Time: Developing a deeper understanding of anthropogenic drivers of carbon dioxide emissions from 1960-2015"  
Committee: 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 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*

- Forthcoming 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*.
- 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 CO2 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.; Patrick Trent Greiner; and David Pellow. "Beyond the State: Mutual Aid Networks as Transformative Environmental Justice." 2<sup>nd</sup> Revise and Resubmit.
- In Review McKane, Rachel G., and Patrick Trent Greiner. "Paving the Way: Redlining and Contemporary Transportation Emissions in U.S. Cities." Submitted.

### 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

- Forthcoming 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

- 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**

- 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

## **TEACHING EXPERIENCE**

### **Courses Taught**

#### Vanderbilt University

Environmental Justice and Inequality (2020; 2022)  
 Social Contexts of Public Policy (2020)  
 Environment and Society (2018, 2019, 2020)  
 Graduate Statistics Seminar- Hierarchical Linear Modeling (scheduled: Spring 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**

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|------|---|
| 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**

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|-----------|--|
| 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**

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| 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**

- 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, Racial and Ethnic Minorities, Animals and Society, Sociology of Development, Marxist Sociology.*  
 2015-Present Society for Human Ecology  
 2014-Present Rural Sociological Society  
 2021-Present Geological Society of America  
 2022-Present Population Association of America