

RACHEL G. MCKANE

Fall 2020

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Department of Sociology ◊ Vanderbilt University ◊ PMB 351811 ◊ 321E ◊ Nashville, TN ◊ 37235-1811

EDUCATION

PhD Sociology August 2020

Vanderbilt University

Dissertation Title: “Mobility For Whom? Transit Equity in the the Unaffordable City”

Dissertation Committee: David J. Hess (Chair), David Pellow, Josh Murray,

Jonathan Gilligan, Patrick Greiner

Special Area Exam I: Environmental Sociology

Special Area Exam II: Science, Technology, and Social Movements

B.A. Global Studies May 2012

University of Tennessee

Magna Cum Laude

Second Major: Political Science

Minor: Latin American Studies

PROFESSIONAL POSITIONS

Postdoctoral Research Fellow, Vanderbilt University

August 2020 - Present

Department of Sociology, Institute for Software Integrated Systems, Institute for Energy and the Environment

Funding: National Science Foundation- PIRE

RESEARCH AND TEACHING INTERESTS

Urban Studies, Environmental Justice, Transportation Justice, Environmental Sociology, Quantitative Methods, Stratification and Intersectionality

PUBLICATIONS

Rachel McKane. “(Un)affordable Cities and Spatial (Im)mobility: Linking the Affordable Housing Crisis to Public Transit Accessibility.” *Under Review*

Rachel McKane. “Losing Mobility: The Inversion of Urban Segregation and Racialized Transit Accessibility.” *Under Review*

David J. Hess and **Rachel McKane.** “Making Sustainability Plans More Equitable: An Analysis of 50 U.S. Cities” *Under Review*

Larry Isaac, **Rachel McKane**, and Anna Jacobs. “Pitting the Working-Class Against Itself: Solidarity, Strikebreaking, and Strike Outcomes in the Early U.S. Labor Movement.” *Under Review*

David J. Hess, **Rachel McKane**, and Caroline Pietrzyk. “From Identities to Coalitions: Community Opposition and the Governance of Power-line Siting Decisions.” *Revise and Resubmit*

David J. Hess, **Rachel McKane**, and Kaelee Belletto. “Advocating a Just Transition: Civil Society and Industrial Change in a Carbon-Intensive Region.” *Revise and Resubmit*

Rachel McKane and Molly K. Richard. “Young Adult Drinking and Depression: The Long-Term Consequences of Poverty, Maternal Depression, and Childhood Behavioral Problems.” Forthcoming at *The Journal of Sociology and Social Welfare*

Rachel McKane, Lacey Satcher, Stacey L. Houston II, and David J. Hess. 2018. “Race, Space, and Waste: An Intersectional Approach to Environmental Justice in New York City.” *Environmental Sociology* 4(1):79-92, DOI: 10.1080/23251042.2018.1429177

Rachel McKane and Holly McCammon. 2019. “Why We March: The Role of Grievances, Threats and Organizational Resources in the 2017 Women’s Marches.” *Mobilization* 23(4):401-424, DOI:10.17813/1086-671X-23-4-401

Dara Naphan, Monica Ridgeway, Amanda Brockman, **Rachel McKane**, Portia Botchway, and Ebony McGee. 2019. “Narratives of Inequity in Doctoral Engineering and Career Trajectories shaped by an Equity Ethic.” *Journal of Engineering Education*. 108(3):337-354, DOI: 10.1002/jee.20284

David J. Hess and **Rachel McKane**. 2017. “Renewable Energy Research and Development: A Political Economy Perspective.” In David Tyfield, Rebecca Lave, Samuel Randalls, and Charles Thorpe, eds. *Routledge Handbook of the Political Economy of Science*.

MANUSCRIPTS IN PROGRESS

Rachel McKane and David Hess. “Ridesourcing versus Public Transit: A Case Study of Transportation Equity in Chicago”

Rachel McKane. “An Examination of Transportation Induced Gentrification in California Cities” **Draft available upon request*

Rachel McKane. “Light Rail Transit, Racial Banishment, and Dispossession in the Neoliberal City” **Draft available upon request*

Yolanda J. McDonald, Nicole Jones, **Rachel McKane**, Johnathan Gilligan, and Elaine Hill. “United Nations Sustainable Development Goal 6: How does US Drinking Water Measure Up?”

GRANTS, HONORS AND AWARDS

American Academy for the Advancement of Science - Catalyzing Advocacy in Science Engineering, Representative for Vanderbilt University, 2020 (Canceled, COVID19)

Research Fellowship (Full Funding, Vanderbilt Discovery Grant), Vanderbilt Institute for Energy and the Environment), 2019 - 2020

Graduate Fellow (\$5500, Vanderbilt Institute for Digital Learning), 2018

Research Fellowship (Full Funding, NSF, Vanderbilt Institute for Energy and the Environment), 2016 - 2018

Conference Travel Grants (4) (\$500-1000, Graduate School and Department of Sociology), 2016 - 2018

Conference Travel Fellowship (\$500, ASA Environmental Sociology Section on Committee on Racial Equity), 2018
Student Paper Award (\$400, Department of Sociology, Vanderbilt University), May 2016
Public Scholar Fellowship (\$2000, Curb Center, Vanderbilt University), 2016 - 2017
Ford Foundation Predoctoral Fellowship, Honorable Mention, 2016
Small Research Grant (\$935, Department of Sociology, Vanderbilt University), 2016
Federal STEM Policy and Advocacy Program Attendee (Graduate School, Vanderbilt University), 2015

RESEARCH EXPERIENCE

Drinking Water Justice Lab August 2018 - Present
Research Assistant

Under: Yolanda McDonald, Jonathan Gilligan, George Hornberger (Vanderbilt University)

Diversity and Inclusion in Local Arts Agencies March 2020 - August 2020
Research Assistant, Statistical Consultant

Under: Daniel Cornfield, Alexandre Frenette (Vanderbilt University)

Energy Democracy and Just Transitions January 2017 - Present
Research Assistant

Under: David Hess (Vanderbilt University)

Tennessee Department of Transportation - Diversity Project November 2019 - December 2019
Text Analysis Consultant

Water Conservation in U.S. Cities January 2017 - July 2018
Research Assistant

Under: David Hess, George Hornberger, Jonathan Gilligan (Vanderbilt University)

Funding: National Science Foundation

Vanderbilt Office of the Provost, Shared Governance Committee August 2017 - January 2018
Data Analyst

Explorations in Diversifying Engineering Faculty Initiative (EDEFI) August 2016 - December 2017
Under: Ebony McGee (Vanderbilt University)

Funding: National Science Foundation

PRESENTATIONS AND INVITED TALKS

Rachel McKane. 2020. "An Examination of Transportation Induced Gentrification in California Cities." *Annual Meeting of the American Sociological Association. San Francisco, CA.*

Larry Isaac, **Rachel McKane** and Anna Jacobs. 2020. "Pitting the Working-Class Against Itself: Solidarity, Strikebreaking, and Strike Outcomes in the Early U.S. Labor Movement." *Annual Meeting of the American Sociological Association. San Francisco, CA.*

Larry Isaac, **Rachel McKane** and Anna Jacobs. 2020. "Pitting the Working-Class Against Itself: Solidarity, Strikebreaking, and Strike Outcomes in the Early U.S. Labor Movement." *NYU Capitalism and contention Conference*. New York, NY. (Canceled, COVID19)

Rachel McKane and Holly McCammon. 2018. "Why We March: The Role of Grievances, Threats and Organizational Resources in the 2017 Womens Marches." *Annual Meeting of the American Sociological Association*. Philadelphia, PA.

Rachel McKane, Megan Robinson, and David J. Hess. 2018. "The March for Science of 2017: Urban Areas, Environmentalism, and the Politics of Science." *Annual Meeting of the American Sociological Association*. Philadelphia, PA.

Rachel McKane. 2018. "Network Ties and Distribution of Social Capital: An Agent Based Analysis." *Annual Meeting of the Southern Sociological Association*. New Orleans, LA (declined).

Rachel McKane and Stacey L. Houston II. 2017. "Race, Space, and Waste: An Intersectional Approach to Environmental Justice in New York City." *Annual Meeting of the American Sociological Association*. Montreal, Canada.

Rachel McKane. 2017. "Drinking and Depression: Ramifications of Poverty, Maternal Depression, and Childhood Behavioral Problems." *Annual Meeting of the American Sociological Association*. Montreal, Canada.

Rachel McKane. 2017. "Poverty and Fertility: Assessing the Mediating Role of Mental Health." *Annual Meeting of the American Sociological Association*. Montreal, Canada.

Rachel McKane. 2017. "Bus Depots in New York City: Examining Environmental Inequality and Health Disparities." *Annual Meeting of the Southern Sociological Society*. Greenville, SC (declined).

David J. Hess and **Rachel McKane**. 2017. "Environmental Justice." School of Nursing, Vanderbilt University, Climate Change, Social Justice and Health Guest Lecturer

Rachel McKane. 2017. "An Introduction to Agent Based Modeling." Environmental Studies, Vanderbilt University, Capstone Seminar Guest Lecturer

David J. Hess, **Rachel McKane**, and Lacey Satcher. 2016. "The Intersection of Health and the Environment." Medicine Health and Society Colloquium, Vanderbilt University

TEACHING EXPERIENCE

Instructor of Record

Contemporary Social Issues (Environmental Justice Focus), Vanderbilt University, Summer 2018

Race and Ethnicity, Austin Peay State University, Fall 2018

Environmental Sociology, Austin Peay State University, Spring 2019 and Spring 2020

Introduction to Sociology, Belmont University, Summer 2020

Environmental Sociology, Belmont University, Fall 2020

Work and Occupations, Austin Peay State University, Fall 2020

Teaching Assistant, Vanderbilt University

Sociology of Health and Environmental Science, Fall 2018

Human Ecology and Society, Fall 2016

Environmental and Sustainability Studies, Spring 2015 and Spring 2016

Introduction to Sociology, Fall 2014

Grader, Vanderbilt University

Graduate Multivariate Statistics, Fall 2015

SERVICE

Discipline

Occasional Reviewer: *Environmental Sociology, Sociological Forum, Mobilization, Social Problems*

Associate Editor, *Work and Occupations*, July 2020 - Present

Committee on Racial Exclusion and Equity, *ASA Environmental Sociology*, November 2020 - Present

Vanderbilt University, Department of Sociology

Graduate Student President, 2017 - 2019

Website Coordinator, 2017 - 2019

Graduate Student Council, 2016 - 2017

Graduate Student Vice President, 2016 - 2017

Graduate Student Recruitment Coordinator, 2016 - 2017

Graduate Student Chair of Professional Development, 2015 - 2016

ANALYTIC SOFTWARE PROFICIENCY

R (advanced), ArcGIS, SAS, Netlogo, Nvivo, Python (novice)

ADVANCED METHODS TRAINING

Multilevel Modeling, Spatial Analysis,

Social Network Analysis,

Structural Equation Modeling, Topic Modeling

PROFESSIONAL AFFILIATIONS

American Sociological Association

Environmental Sociology

Collective Behavior and Social Movements

Race, Gender, and Class

Science, Knowledge, and Technology

Southern Sociological Society

REFERENCES

Prof. David J. Hess
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