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EMPLOYMENT

- 2017-Present Associate Professor of Sociology, Department of Social Sciences
Environmental and Energy Policy Graduate Program
Michigan Technological University
- 2013-2017 Assistant Professor of Sociology, Department of Social Sciences
Environmental and Energy Policy Graduate Program
Michigan Technological University

EDUCATION

- 2013 Ph.D., Sociology, University of Wisconsin-Madison
Minor in Science and Technology Studies
Certificate in Humans and the Global Environment (NSF-IGERT)
- 2008 M.A., Sociology, Colorado State University
- 2005 B.A. with honors, Sociology, University of Wisconsin-Madison
Certificate in Environmental Studies

BOOKS (* indicates student collaborator)

- Halvorsen, K.E., Schelly, C., Handler, R., Pischke, E.,* Knowlton, J., Eds. 2019. *A Research Agenda for Environmental Management*. Edward Elgar.
- Schelly, C., and Banerjee, A.,* Eds. 2018. *Environmental Policy and Pursuit of Sustainability*. Routledge.
- Schelly, C. 2017. *Dwelling in Resistance: Living with Alternative Technologies in America*. Rutgers University Press.
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PUBLICATIONS (* indicates student collaborator)

- Ahamed, S., Schelly, C., Floress, K., Lytle, W., Caggiano, H., Cuite, C., Wallace, C., Cook, R., Jarvis, R., Shwom, R., Watkins, D. (Forthcoming) "Being Able to Work Has Kept Our Life Fairly Constant:" Reconciling Social Practice Models to Assess the Impact of (Infra)Structural Inequities on Household Wellbeing During the COVID-19 Pandemic. *Environmental Research: Infrastructure and Sustainability*
- Caggiano, Holly B.*, Ahamed, S., Lytle, W.*, Schelly, C., Floress, K., Cuite, C., Shwom, R. (2023) Green Roles at Home: Exploring the Impact of Household Social Dynamic Processes on Consumption at the Food-Energy-Water (FEW) Nexus.

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<https://doi.org/10.1007/s13412-023-00824-x>
- Lee, D.*, Schelly, C., Tiwari, S.*, Smith, S., Gagnon, V. (2023) Preferences and Perceived Barriers to Pursuing Energy Sovereignty and Renewable Energy: A Tribal Nations Perspective. *Energy Research & Social Science* 97
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<https://doi.org/10.1007/s42532-022-00132-8>
- Pearce, J.M., Tiwari, S., Schelly, C. (2022). Canadian Professors' Views on Establishing Open Source Endowed Professorships. *Cogent Education* 9(1)
<https://doi.org/10.1080/2331186X.2022.2122255>
- Pascaris, A.*, Schelly, C., Rouleau, M., Pearce, J. (2022). Do Agrivoltaics Improve Public Support for Solar? A Survey on Perceptions, Preferences, and Priorities. *Green Technology, Resilience, and Sustainability* 2(8)
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- Williams, P., Price, M.W., Redd, E., Noodin, M.A. (2022). Enacting Boundaries or Building Bridges? Language and Engagement in Food-Energy-Water Systems Science. *Socio-Ecological Practice Research* <https://doi.org/10.1007/s42532-022-00110-0>
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- Schelly, C., Gagnon, V., Arola, K., Fiss, A., Schaefer, M., Halvorsen, K.E. (2021). Cultural Imaginaries or Incommensurable Ontologies? Recognizing relationality and sovereignty as worldviews in socio-technological system transitions. *Energy Research and Social Science* 80 <https://doi.org/10.1016/j.erss.2021.102242>
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- Embedded Decision Framework to Solar Photovoltaic Adoption: A Conceptual Exploration. *Sustainability* 13(2), 711; <https://doi.org/10.3390/su13020711>
- Lytle, W.*, Meyer, T.K., Tanikella, N.G., Burnham, L., Engel, J., Schelly, C., Pearce, J.M. (2021). Conceptual Design and Rationale for a New Agrivoltaics Concept: Pastured-Raised Rabbits and Solar Farming. *Journal of Cleaner Production*. 282 <https://doi.org/10.1016/j.jclepro.2020.124476> (cited 32 times as of 10/26/22)
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- Kreuze, A.* Schelly, C., Norman, E.S. (2016). To Frack or not to Frack: Perceptions of the Risks and Opportunities of High-Volume Hydraulic Fracturing in the United States. *Energy Research and Social Science* 20: 45-54. <http://dx.doi.org/10.1016/j.erss.2016.05.010> (cited 41 times as of 10/26/22)
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- Schelly, C. (2015). What's Political about Solar Electric Technology? The User's Perspective. *Engaging Science, Technology & Society* 1: 25-46.
- Schelly, C. (2015). Frameworks for Understanding and Promoting Solar Energy Technology Development. *Resources* 4: 55-69.
- Schelly, C., Anzalone, G., Wijnen, B.,* Pearce, J. (2015). Open-Source 3-D Printing Technologies for Empowered and Transformative Education: Bringing Additive Manufacturing to the Classroom. *Journal of Visual Languages and Computing* 28: 226-237. (Cited 235 times as of 10/26/22)

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- Schelly, C. (2014). Residential Solar Electricity Adoption: What Motivates, and What Matters? A Case Study of Early Adopters. *Energy Research and Social Science* 2: 183-191. (Cited 300 times as of 10/26/22)
- Schelly, C. (2014). Implementing Renewable Energy Portfolio Standards: The Good, the Bad, and the Ugly in a Two State Comparison. *Energy Policy* 67: 543-551. (Cited 62 times as of 10/26/22)
- Schelly, C., Price, J. (2014). Utilizing GIS to Examine the Relationship Between State Renewable Portfolio Standards and the Adoption of Renewable Energy Technologies. *International Journal of Geo-Information* 3(1): 1-17.
- Schelly, C., Cross, J.E., Franzen, W.S., Hall, P., Reeve, S. (2012). How to Go Green: Creating a Conservation Culture in a Public High School through Education, Modeling, and Communication. *Journal of Environmental Education* 43(3): 143-161. (Cited 126 times as of 10/26/22)
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- Alatout, S., Schelly, C. (2010). Rural Electrification as a “Bioterritorial” Technology: Redefining Space, Citizenship, and Power during the New Deal. *Radical History Review* 107: 127-138.
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OTHER PUBLICATIONS since 2016 (* indicates student collaborator)

- Schelly, C. (2022). There are opportunities to accelerate the transition to a decarbonized energy system – but they require that we rethink our questions, and our selves. Blog post for the University of Ottawa’s Institute for Science, Society and Policy. Accessed June 1, https://issp.uottawa.ca/en/news/there-are-opportunities-accelerate-transition-decarbonized-energy-system-they-require-we?mc_cid=b584041750&mc_eid=34bfa013ea
- Eaton, W., Robertson, T., Arbuckle, J., Brasier, K., Burbach, M.E., Burnham, M., Church,

- S.P., Eberly, C., Hart-Fredeluces, G., Jackson-Smith, D., Rogers, A., Wildermuth, G.A., Canfield, K., Cordova, S.C., Chatelain, C.D., Edwards, J.T., Fowler, L., Hurst, Z., Kirchhoff, C.J., Manheim, M., Martinez, R., Mook, A., Mullin, C.A., Murrah-Hanson, L., Onabola, C.O., Parker, L., Redd, E.A., Schelly, C., Schoon, M., Sigler, W., Smit, E., van Huysen, T., Verbrugge, L., Worosz, M. (2022). Advancing Scholarship and Practice of Stakeholder Engagement in Working Landscapes: 34 co-produced research opportunities. doi:10.26207/b8rt-5q47.
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- Adesanya, A.,* Schelly, C. (2020). Promoting Policies. In Filho, W., Salvia, A., Marisa Azul, A., Londero Brandli, L., Wall, T., Eds., *Encyclopedia of the UN Sustainable Development Goals: Affordable and Clean Energy*, Springer Nature.
- Brosemer, K.*, Schelly, C., Gagnon, V., Arola, K.L., Pearce, J.M., Bessette, D., Schmidt Olabisi, L. (2020). The Energy Crises Revealed by COVID: Intersections of inequality, Indigeneity, and health. *Energy Research and Social Science* 68 (cited 91 times as of 10/26/22)
- Prokopy, L., Gramig, B., Bower, A., Church, A., Ellison, B., Floress, K., Gassman, P., Genskow, K., Gucker, D., Hallett, S., Hill, J., Hunt, N., Johnson, K., Kaplan, I., Kelleher, P., Kok, H., Komp, M., Lammers, P., LaRose, S., Liebman, M., Margenot, A., Mulla, D., O'Donnell, M., Peimer, A., Reaves, E., Salazar, K., Schelly, C., Schilling, K., Secchi, S., Spaulding, A., Swenson, D., Thompson, A., Ulrich-Schad, J. (2020). The urgency of transforming the Midwestern U.S. landscape into more than corn and soybean. *Agriculture and Human Values*. <https://doi.org/10.1007/s10460-020-10077-x> (cited 25 times as of 10/26/22)
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- Barnett, B., Meldrum, J., Niemi, B., Prehoda, E., Schelly, C., Winkler, R. (2019). A Guidebook to Increasing Low-to-Moderate Income Households' Access to the Benefits of Rural Public Power Community Solar Programs. American Public Power Association.
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Lytle, W.*, Schelly, C., Berman, H.*, Floress, K. (2022). The social class and lifestyle embeddedness of being within energy infrastructures. Forthcoming in *Infrastructural Being. Rethinking dwelling in a naturecultural world*, Page 87-114 in edited by Jarno Valkonen, Veera Kinnunen, Heikki Huilaja & Teemu Loikkanen. Palgrave Macmillan

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- Schelly, C. (2016). How Policy Frameworks Shape Environmental Practice: Three Cases of Alternative Dwelling. Pages 185-203 in Kennedy, E.H., Cohen, M.J., Krogman, N., Eds., *Putting Sustainability into Practice: Advances and Applications of Social Practice Theories*. Cheltenham, UK: Edward Elgar.
- Schelly, C. (2014). Transitioning to Renewable Sources of Electricity: Motivations,

Policy, and Potential. Pages 62-72 in Kleinman, D.L., Cloud-Hansen, K., Handelsman, J., Eds., *Controversies in Science and Technology, Volume 4*. New York: Oxford University Press.

PAPERS UNDER REVIEW AND IN PROGRESS (* indicates student collaborator)

Ketola, Z.*, Rouleau, M., Schelly, C., Kuelheim, C. Understanding Perceptions on the Genetic Improvement of Tree Species Among Family Forest Owners (FFO) in Michigan, Minnesota, and Wisconsin. Under Review.

Tiwari, S.*, Schelly, C., Sidortsov, R. Putting 'U' in PUSH: Comparing social acceptance of conventional and pumped underground storage hydro energy systems. Under Review.

Lytle, W.*, Floress, K., Schelly, C. Ahamed, S. Accounting for Actants in Household Consumption Research.

Schelly, C., Rubin, Z., Lockyer, J. The Paradox of Collective Climate Action in Rural U.S. Ecovillages: Ethnographic Reflections and Perspectives. Under Review.

Tiwari, S.*, Schelly, C. Energy security in the context of rural and urban divide. Invited contribution to *Routledge Handbook of Energy Security v. 2*. Under Review.

EXTERNAL FUNDING AWARDS

Fall 2022 "Electrification and climate resilience in the rural north: Challenges and opportunities," Alfred P. Sloan Foundation. Dyreson, A., PI, Schelly, C., Sidortsov, R., Scarlett, T., MTU co-PIs. Funding: \$499,445. Project period: 12/22-11/25

Fall 2022 "Energy Service Security for Public Health Resilience (ESS-PHR)," Natural Hazards Center Research in U.S. Territories, Tribal Areas, and Rural Communities Award, led by Shardul Tiwari, Dr. C. Schelly, co-PI. Funding: \$49,230. Project period: 11/22-7/23

Fall 2021 "Socio-Technological Guided Enhancement of Power Infrastructure Resilience," National Science Foundation Strengthening American Infrastructure EAGER Award. Schelly, C., PI. Sahraei-Ardakani, M., Ou, G., Chen, J., co-PIs. Funding: \$298,883. Project period: 12/21-11/23.

Spring 2020 "Consumption Behaviors and COVID-19: A More Sustainable Reconfiguration of FFW Consumption?" National Science Foundation RAPID Award. Watkins, D., PI, Schelly, C., Shwom, R., Wallace, C., co-PIs. Funding: \$190,764. Project period: 5/20-4/22.

Spring 2020 "Social implications of genetically improved trees: Assessing public and forest owner attitudes, risk perceptions, and willingness to adopt," US Department of Agriculture, National Institute of Food and Agriculture,

- Agriculture and Food Research Initiative Award. Kulheim, C., PI, Schelly, C., Rouleau, M., co-PIs. Funding: \$475,000. Project period: 9/20-8/24.
- Spring 2020 “The Energizer Bunny: Dual-Use Photovoltaic and Pasture-Raised Rabbit Farms.” Department of Energy. FOA/Award#: DE-EE0008990. Pearce, J.M., PI, Schelly, C., co-PI. Funding: \$182,580. Project period: 2/20-5/21.
- Fall 2019 “Collaborative Research: GCR: A Convergent Discipline in Socio-Technological System Transitions: Research on Michigan Community & Anishinaabe Renewable Energy Sovereignty [MICARES],” NSF Convergence Award, Halvorsen, K.E., PI, Ong, R., Schelly, C., Pearce, J.M., Winkler, R., co-PIs. Funding: \$1,250,341. Project period: 10/19-9/24.
- Fall 2019 “INFEWS/T3 RCN: EngageINFEWS – A Research Coordination Network (RCN) for Community and Stakeholder Engagement Critical to Innovations at the Nexus of Food, Energy, and Water Systems Science.” NSF INFEWS RCN Award. Kliskey, A., PI, Schelly, C., Williams, P., Dale, V., Marshall, A.M., co-PIs. Funding: \$749,639. Project period: 8/19-9/24.
- Fall 2018 “Enhancing electrical grid and community resilience through repurposing decommissioned mines into underground pumped storage facilities,” Alfred P. Sloan Foundation Award. Sidortsov, R., PI, Schelly, C., co-PI. Funding: \$49,963. Project period: 9/18-8/20.
- Fall 2018 “Long Island Solar Roadmap Project” Schelly, C., Contracted solar scientist PI. The Nature Conservancy and Defenders of Wildlife. 2-year project.
- Fall 2017 “Independent Risk Analysis for the Straits Pipelines” Task X Broader Impacts. Michigan Tech Contracted by State of Michigan. Report provided fall 2018.
- Fall 2017 “Increasing Low-to-Moderate Income Household’s Access to the Benefits of Rural Public Power Community Solar Programs,” Schelly, C., PI, Winkler, R., co-PI, American Public Power Association Demonstration of Energy & Efficiency Developments program. Project budget: \$69,224. Project period: 1/18-12/18.
- Fall 2016 “Reducing Household Food, Energy and Water Consumption: A Quantitative Analysis of Interventions and Impacts of Conservation,” NSF-INFEWS. Watkins, D., PI, Agusdinata, B., Schelly, C., Shom, R., Evan, J., co-PIs. Funding: \$2,983,358, Project period: 10/16-9/21.
- Fall 2015 “Coupled Production-Consumption Systems for Climate Change

Mitigation: Designing Equitable Food, Energy, and Water Conservation Strategies." NSF Conference Planning Grant. Watkins, D., Halvorsen, K.E. Schelly, C., Affiliated Faculty, Planning Committee. Total funding: \$47,200.

Summer 2015 Rural Sociological Society, Early Career Research Award
Proposal title: "Policies for Self-Provisioning: Understanding the Success of Alternative Rural Communities." Funding amount: \$2,500.00

Fall 2013 "Sustainability, Ecosystem Services, 2018 and Bioenergy Development across the Americas," NSF PIRE Award, Halvorsen, K.E., PI. Schelly, C., Senior Personnel

2010 – 2014 Environmental Protection Agency - Science To Achieve Results (STAR) Graduate Fellowship (EPA_F2009-STAR-13), FP917171
Research Category: "Science & Technology for Sustainability: Environmental / Behavior and Decision Making"
Project Title: "Residential Solar Technology Adoption: Motivations for Environmental Behavior and Experiences with Alternative Energy Systems"

2008 – 2012 Fellowship, National Science Foundation, CHANGE-IGERT Interdisciplinary Graduate Education and Research Traineeship: Certificate on Humans and the Global Environment, University of Wisconsin-Madison

INTERNAL FUNDING AWARDS

Fall 2018 Michigan Technological University College of Engineering Interdisciplinary Collaboration Seed Funding. Urban, N., PI, Schelly, C., co-PI. Funding: \$5,000.

Summer 2015 Michigan Technological University's Research Excellence Fund Scholarship and Creativity Grant. Proposal title: "Policies for Self-Provisioning: Understanding Alternative Technology Use at Dancing Rabbit Ecovillage," Funding amount: \$4,219.00

Fall 2013 "Bringing Small-Scale, Distributed Solar Technology to Campus for Student Education, A Behavioral Research Program, and Technological Innovation" MTU Century II Campaign Endowed Equipment (C2E2). Funding: \$5,000.

STUDENT ADVISING

Don Lee, Environmental and Energy Policy PhD – co-advisor, current

Don is supported as a GRA on my NSF: CONVERGENCE: MICARES award

Abbi Halkola, Environmental and Energy Policy PhD – advisor, current

Thi Mai Anh Tran, Forest Science PhD – co-advisor, current

Zoe Ketola, Environmental and Energy Policy MS – advisor, current

Zoe is supported as a GRA on my USDA NIFA AFRI award

John Frye, Environmental and Energy Policy MS – advisor, current

John is supported as a GRA on my NSF: CONVERGENCE: MICARES award

Kathy Huertas Sanchez, Environmental and Energy Policy MS – advisor, current

Amanda Kreuze, Environmental and Energy Policy MS – co-advisor, Spring 2015

Defense

Emily Prehoda, Environmental and Energy Policy MS – advisor, October 2016 Defense

Karuna Rana, Environmental and Energy Policy MS – advisor, Spring 2020 Defense

Alexis Pascaris, Environmental and Energy Policy MS - advisor, Spring 2021 Defense

Alexis was supported as a GRA on my DOE EERE/SETO award

Christian Sheja, Environmental and Energy Policy MS – advisor, Spring 2022 Defense

Jace Lutey, Environmental and Energy Policy MS – advisor (did not graduate)

Jace was supported as a GRA on my NSF: INFEWS: FEWCON award

Shardul Tiwari, Environmental and Energy Policy PhD Program, co-advisor, fall 2020

Defense. Shardul was supported as a GRA on my NSF: SAI: EAGER award

Emily Prehoda, Environmental and Energy Policy PhD – advisor, Spring 2019 Defense

Emily was supported as a GRA on my APPA DEED award

Adeiwale Adesanya, Environmental and Energy Policy PhD – advisor, Fall 2020 Defense

Adeiwale was supported as a GRA on my NSF: CONVERGENCE: MICARES award

Will Lytle, Environmental and Energy Policy PhD – advisor, Summer 2021 Defense

Will was supported as a GRA on my NSF: INFEWS: FEWCON award

Aparajita Banerjee, Environmental and Energy Policy PhD – committee, Fall 2015

Defense

Mizan Rahman, Environmental and Energy Policy PhD – committee, Fall 2015 Defense

Erin Pischke, Environmental and Energy Policy PhD – committee, Spring 2017 Defense

Jennifer Dunn, Environmental and Energy Policy PhD – committee, Spring 2018

Defense

Brent Burns, Environmental and Energy Policy PhD – committee, Spring 2020 Defense

Bethel Tarekegne, Environmental and Energy PhD – committee, Summer 2020

Defense

Azat Turegeldin, Environmental and Energy Policy MS – committee, Spring 2020

Defense

Kathleen E. Brosemer, Environmental and Energy PhD – committee, current

Patrick Gillman, Anthropology BS – thesis advisor, December 2017 Defense

OUTSIDE STUDENT COMMITTEE MEMBERSHIP AND ADVISING

University of Western Australia. External examiner for PhD thesis. 2016.

Swidburne University of Technology, Australia. External examiner for MS thesis. 2017.

Northeastern University Doctor of Law and Policy. External dissertation reader.
2017-2018.

Swidburne University of Technology, Australia. External examiner for MS thesis. 2022.

Yan Wu, Applied Natural Resource Economics MS – outside member, Fall 2013 Defense

Negin Heidari, Electrical Engineering MS – outside member, Spring 2015 Defense

Aishwarya Mundada, Electrical Engineering MS - outside member, Spring 2016 Defense

Bas Wijnen, Materials Science and Engineering PhD – outside member,
Summer 2016 Defense

William Lytle, Forest Resources Environmental Science MS - outside member,
Fall 2016 Defense

Noah Goyke, Forest Resources Environmental Science MS - outside member,
Spr. 2017 Defense

Larry Shirmer Jr., Civil and Environmental Eng. MS – outside member,
Summer 2017 Defense

Colin Phifer, Forest Science PhD – outside member, Fall 2017 Defense

Nichole Mackey, Computer Science MS – outside member, Spring 2019 Defense

Laura Burmann, Forest Resources Environmental Science MS – outside member,
Fall 2019 Defense

Prathyusha Sreedhara, Computer Science MS – outside member, Summer 2020 Defense

Jessica Daignault, Environmental Engineering PhD – outside member,
Summer 2021 Defense

Claudia Irmgard Bartlick-Georg, Forest Science PhD – outside member, current

FUNDING PROPOSALS IN PROGRESS AND UNDER REVIEW

Spring 2023 “NSF: URoL:ASC: EMERGENCC: Economic Modeling of Energy Resources, Growth, Equity, and Nature for Climate Change,” led by Gaël Giraud from Georgetown University, Carey King (UT-Austin), Chen Hou (Missouri S&T), and C. Schelly, co-PIs.

Spring 2023 “Proposal to establish the Eastern Tribal Technical Assistance Program at Michigan Technological University,” Federal Highway Administration. C. Schelly, Proposed TTAP Director

Fall 2022 “Center for Climate-driven Hazard Adaptation, Resilience, and Mitigation (C-CHARM) in Great Lakes Rural Communities,” DoE

Climate Resiliency Center Concept Paper Submission led by Penfei Xue, C. Schelly, A. Dyreson, and T. Oommen, co-PIs. Encouraged for a full submission.

- Fall 2022 “Grid Enhancement Through Direct Inclusion of Weather and Related Data in Detailed Power Grid Analysis Tools,” Concept Paper submitted to the DOE GRIP FOA 2740. Project Leader: PowerWorld Corporation. C. Schelly, team member.
- Fall 2022 “Osage CO₂ Storage Hub-CarbonSAFE Phase III” Led by Rouzbeh G. Moghanloo from the University of Oklahoma. Total project budget: \$23,000,000. Project period is 9/1/2023-8/30/2026
- Fall 2022 “Expanding Regional EVSE Access with Tribal Nations based on Community Priorities,” Submitted to DE-FOA-0002611: FY22 Vehicle Technologies Office for AOI 9: Community-Driven EV Charging Deployment in Underserved Communities. Submission led by Native Sun Community Power Development with C. Schelly as key team member. This full proposal was invited based on a submitted Concept Paper.
- Fall 2022 “Native Community Clean Energy Training Center,” Concept Paper submitted to DE-FOA-0002769: Advancing Equity through Workforce Partnerships. Submission led by Native Sun Community Power Development with C. Schelly as key team member.
- Spring 2022 Environmental Protection Agency STAR Program. “Drivers of energy service transitions and impacts on well-being in forest dependent rural communities.” Schelly, C., PI.

FUNDING PROPOSALS NOT FUNDED (since 2017)

- Fall 2022 “Understanding the Social, Economic, and Regulatory Barriers to Large Scale Adoption of Agrivoltaics,” Submitted to the Department of Energy Foundational Agrivoltaic Research for Megawatt Scale (FARMS) program. Submission led by J. Burkhardt at Colorado State University. This full submission was invited from a Concept Paper and moved through to the Interview stage of the proposal review process.
- Fall 2022 “Osage CO₂ Storage Hub-CarbonSAFE Phase II” Led by Rouzbeh G. Moghanloo from the University of Oklahoma. This Phase II proposal was encouraged for resubmission as a Phase III submission.
- Spring 2022 National Science Foundation Partnerships in International Research and Education, “Legacy Infrastructure Codesign and Reuse

- Integrating Storage and Clean Energy (LCoRISCE).” Schelly, C., PI.
- Spring 2022 “Solar Growth for Resilience: An Integrated Framework for Northern Communities.” Concept Paper Submitted to the Department of Energy Solar Energy Technologies Office Renewables Advancing Community Energy Resilience (RACER) program. Topic 1. Dyreson, A., PI, Schelly, C., co-PI.
- Spring 2022 “A Smart, Networked Street Lighting System to Support Power Grid Resilience and Restoration.” Concept Paper Submitted to the Department of Energy Solar Energy Technologies Office Renewables Advancing Community Energy Resilience (RACER) program. Topic 2. Center for Energy an Environment, PI, Schelly, C., co-PI.
- Spring 2022 “Resilient and Hardened PV Power Plants in Extreme Winter Weather: Solar in the North Optimized for Winter (SNOW).” Concept Paper Submitted to the Department of Energy Solar Energy Technologies Office Renewables Advancing Community Energy Resilience (RACER) program. Topic 3. Burnham, L., Sandia National Lab, PI, Schelly, C., co-PI.
- Spring 2022 Department of Energy Inclusive Innovations Prize. The “Ignite, Innovative, Indigenize (I3) Energy Team.” With Sarah Smith, 8th Fire Consulting.
- Spring 2022 “Agrivoltaics as a Pathway to Accelerated Solar Development with Enhanced Ecosystem Services, Local Food Systems, and Tribal Nation Sovereignty.” Department of Energy SolWEB Program, Concept Paper submitted. With Alexis Pascaris, Agrisolar Consulting, lead investigator.
- Fall 2021 “Center of Achieving Net Zero (CANZ) in Northern Climates,” National Science Foundation Science and Technology Centers, preliminary proposal submitted. Schelly, C., PI. Total potential budget: \$30,000,000.
- Fall 2021 “NSF-BSF: Modelling Household Response to Potential Photovoltaic Panel Installation in Multi-family Buildings in Israel and the USA,” led US submission by invitation from Israeli scholar. Funding request: \$122,655.
- Spring 2021 “STEM training to advance Socially Ethical and Ecologically Sustainable AI (SEES-AI)” National Science Foundation National Research Trainee (NSF-NRT) program. Schelly, C., PI. Funding request: \$2,998,146.
- Spring 2021 National Endowment for the Humanities, Algorithmic Culture Summer Institute, Hristova, S., PI, Schelly, C., Brown, L., co-PIs. Funding request: \$227,575.

- Spring 2021 “EFRI E3P Preliminary Proposal: Flexible Recycling of Mixed-Plastic Waste Streams via Plastic Alloying.” NSF EFRI Program. Huber, G., PI, Bar-Ziv, E., McDonald, A., Zavala Tejada, V., Schelly, C., co-PIs. Preliminary proposal invited, full proposal declined. Requested funding: \$2,000,000.
- Spring 2021 “NSF:GCR: Convergence on the low grade heat harvesting.” NSF Convergence program submission. Wang, S., PI, Schelly, C., co-PI.
- Spring 2021 “NSF FW-HTF-P: Preparing workers in energy supply chains for equitable provision of energy services under climate-driven extremes: Case study in the Upper Midwest.” Dyreson, A., PI, Schelly, C., co-PI.
- Spring 2021 “NSF SCC-PG: Assessing Technological Solutions to Connectivity and Mobility Needs in Isolated Communities.” French, N., PI, Schelly, C., co-PI.
- Spring 2021 “BTM Solar for Tribal Nation and Rural Community Energy Sovereignty DoE SETO Concept Paper, topic 2. Schelly, C., PI.
- Spring 2021 “The renewable energy transition in pursuit of intergenerational energy justice and development of capabilities in post-mining and Tribal Nations communities,” Alfred P. Sloan Foundation, LoI submission. Schelly, C., PI.
- Fall 2020 “SCC-CIVIC-PG Track B: Strategic Milestones of Disaster Recovery for Isolated and Rural Communities.” Ten, C.-W., PI, Schelly, C., co-PI.
- Fall 2020 “Transdisciplinary Co-Production Pathways to Developing Pumped Underground Storage Hydropower Facilities (PUSH).” EAGER SAI E Concept outline submission. Sidortsov, S. PI., Schelly, C., co-PI.
- Spring 2020 “Energized Agricultural Production to Achieve Food, Energy, and Water Nexus Goals.” Topic Area 6: Solar and Agricultural: System Design, Value Frameworks, and Impact Analysis Project Focus Area(s): System Design and Technology Development.” DoE Concept Paper submission. Invited for full submission.
- Spring 2020 “Waste Plastics to New Composite Material Products, via Chemical Recycling and Reactive Extrusion,” submitted to DE-FOA-0002203: FY20 Bioenergy Technologies Multi-Topic FOA. Bar Ziv, E., PI, Schelly, C., co-PI.
- Spring 2020 “Net Zero Energy Cities as a Tool of Climate Mitigation: An Empirical Case Study,” LoI Submission to Ray C. Anderson Foundation.
- Spring 2020 “NSF-NRT-FW-HTF: Project SEAMLESS: Sustainability and Ecosystems,

- Automation, Machine Learning, Energy and Social Systems.” Schelly, C., PI. Total requested funding: 2,999,762.
- Spring 2020 “NSF EFRI E3P: Circular Economy for End of Life Plastic by Catalytic Depolymerization” NSF-EFRI LoI Submission. Bar Ziv, E., PI, Schelly, C., co-PI.
- Fall 2019 “CNH2-L: Waste to Energy Regimes for a Sustainable Society” Macdonald, A., PI, Schelly, C., SP.
- Fall 2019 “CNH2-L: Assessing linkages among socio-technological provisioning systems and integrated socio-environmental systems to enhance Community REsilience [CORE]” Schelly, C., PI.
- Fall 2019 “#MoreThanCorn: Enhancing rural resilience through landscape diversity in the Midwest” Prokopy, L., PI, Schelly, C., SP. USDA NIFA submission.
- Fall 2019 “Social implications of genetically improved trees: Assessing public and forest owner attitudes, risk perceptions, and willingness to adopt,” USDA-AFRI.
- Spring 2018 “Guidance for Employer-Based Behavioral Traffic Safety Programs for Drivers in the Workplace,” Velat, J., PI, Schelly, C., co-PI. Behavioral Traffic Safety Cooperative Research Program.
- Spring 2018 “Agriculture and Rural Communities Energy Roadmap,” submitted to Michigan Energy Office, in partnership with Midwest Energy Efficiency Alliance, Carter, A., PI, Schelly, C., co-PI.
- Spring 2018 “Incentive-based consumer engagement of human-energy flows in a socially diverse, isolated, geographically scattered community,” NSF S&CC Program. Zhang, K., PI. Schelly, C., co-PI.
- Spring 2018 “NSF: CNH: Coupled Natural-Human Systems for Sustainable and Sustained Rural Communities: Quantification and Comparison of Linked Infrastructure-Ecosystem-Governance Systems,” Schelly, C., PI.

SELECT INVITED LECTURES since 2017

- “The social aspects of socio-technological systems transitions,” invited lecture for the University of Ottawa’s Institute for Science, Society, and Policy, as part of awarded Fulbright Research Chair in Science and Society, February 2022
- “Energy transitions to enhance energy sovereignty: The Michigan Community and Anishinaabe Renewable Energy Sovereignty Project,” Wonder for Good, October 2021
- “Michigan Tribes at the Clean Energy Transition,” panel discussion, Michigan Climate

- and Clean Energy Summit, May 2021
- “How can we apply Anishinaabe teachings to energy decision making,” with Marie Schaefer, Groundworks Center for Community Resilience, March 2021
- “Marketing Residential Solar to Women: Research Roundtable,” invited roundtable participant for national webinar organized by TerraCurrent, a green marketing firm in California, Oct. 2020
- “Community input on role of policing in Houghton County,” invited presentation for the Houghton County Planning Commission, July 2020
- “Intentional Communities: Living Sustainably with a Shared Purpose,” invited virtual lecture for Upper Peninsula Environmental Coalition, July 2020
- “Becoming Intentional: Reforming Democracy in the Keweenaw,” invited discussant and panel chair, Good Shepard Lutheran Church, Houghton MI, Dec. 2017
- “Dwelling in Resistance: Learning, Living, and Writing It,” invited lecture to Friends of the Michigan Tech Library annual meeting, Oct. 2017
- “Researching Possibilities for Sustainability in Everyday Life,” invited lecture to the Lake Superior Stewardship Initiative Dinner and Dialogue, Houghton, MI, February 2017

SELECT INVITED LECTURES at Michigan Tech since 2017

- “Research and Design Work,” MTU Sustainability Stewards meeting, February 2021
- “Minimalism,” invited facilitator for the Sustainability Films Series, February 2021
- “Mobility at Michigan Tech,” invited panelist on MTU panel discussion, Jan. 2021
- “Large team science proposals,” invited panelist, MTU Research Development Day, Jan. 2021
- “Earning Tenure,” invited panelist, MTU Faculty Development, April 2019
- “Interdisciplinary research,” invited panelist, MTU Research Development Day, Jan. 2019
- “Social and Policy Considerations for Alternative Technology,” invited lecture to MTU Alternative Energy Enterprise, Fall 2018
- “Presenting to a scientific audience,” invited presentation for MTU Graduate Student Government professional development event, February 2018
- “Intentional Communities as Models for Rural Resilience? Measuring what Matters,” MTU Dept. of Social Sciences brownbag, Feb. 2018
- “On Research Design,” invited lecture, MTU Graduate Student Government, Sept. 2017
- “Renewable Energy as Social Justice,” Preparing African American Males for Energy and Education (PAAMEE) Summer Youth Program at MTU, July 17th and July 24th, 2017
- “Introduction to Ethnographic Research Methods,” Guest lecture for MTU Pavlis Honors College Study Abroad Students, May 22, 2017.
- “Researching Possibilities for Sustainability in Everyday Life,” invited lecture to MTU

Alternative Energy Enterprise, March 2017

SELECT CONFERENCE PRESENTATIONS since 2017 (* indicates student collaborator)

- “Processes/Outcomes and Good/Better Practices for Engagement that Enhances Justice, Equity, Diversity, and Inclusion,” two organized panel sessions to be submitted to the ISSRM Virtual Conference, fall 2022. Schelly, C., primary organizer
- “The Paradox of Collective Climate Action in Rural U.S. Ecovillages” Rubin, Z., Schelly, C., Lockyer, J. Communal Studies Association, 2022
- “Social Acceptability for Genetically Improved Trees: Preliminary Survey Findings,” Ketola, Z.*, Rouleau, M., Schelly, C., Kuelheim, C., Chakrabarty, S.* ISSRM, Costa Rica, June 2022
- “Energy Sovereignty for Rural and Indigenous Communities,” Organized Panel Session. Schelly, C., Winkler, R., Bessette, D., co-organizers. ISSRM Virtual Conference, July 2020
- “Improving Solar Development Policy and Planning through Stakeholder Engagement: The Long Island Solar Roadmap Project,” Schelly, C., Price, J., Delach, A., Thapaliya, R., Leu, K. Boise State Energy Policy Institute’s Energy Policy Research Conference, Sept. 2019
- “Accounting for Active Actants in Household Consumption Research,” Lytle, W.*, Schelly, C., ISSRM, Oshkosh, WI, June 2019
- “Accounting for Active Actants in Household Consumption Research,” Schelly, C., Lytle, W.* Energy Research and Social Science Conference, Tempe, AZ, May 2019
- “Community-engaged research for community solar design,” Winkler, R., Prehoda, E.*, Schelly, C. Energy Research and Social Science Conference, Tempe, AZ, May 2019
- “Accounting for Active Actants in Household Consumption Research,” Schelly, C., Lytle, W.* Western Social Sciences Association, San Diego, CA, April 2019
- “Community scale solar electricity for rural communities: Designing for resilience, access, and identity,” Prehoda, E.*, Schelly, C., Winkler, R. Rural Sociological Society Conference, Portland, OR, July 2018
- “Collaborative Governance and Wisconsin’s Biomass Harvesting Guidelines.” Dunn, J.L.*, Halvorsen, K.E., Schelly, C., Abrams, J. ISSRM, Salt Lake City, UT, June 2018
- “Community scale solar electricity for rural communities: Designing for resilience, access, and identity,” Prehoda, E.*, Schelly, C., Winkler, R. ISSRM, Salt Lake City, UT, June 2018
- “The Challenges of Reducing Household Consumption Across the Food-Energy-Water Nexus,” Schelly, C., Lytle, W*. ISSRM, Salt Lake City, UT, June 2018
- “The Challenges of Reducing Household Consumption Across the Food-Energy-Water

- Nexus," Schelly, C., Lytle, W*. Western Social Science Association, San Antonio TX, April 2018
- "Collaborative Governance and Wisconsin's Biomass Harvesting Guidelines," Dunn, J.*, Halvorsen, K.E., Schelly, C. Society of American Foresters National Convention, November 2017
- "Wind and solar power projects and energy justice: emerging patterns from peripheral countries," Banerjee, A.*, Schelly, C. Energy Impacts, July 2017
- "Assessing the Energy Justice Potential of Renewable Electricity: A Review of Current Applications." Banerjee, A.*, Prehoda, E., Sidortsov, R., Schelly, C. Rural Sociological Society Conference, July 2017
- "NIPF Landowner Perceptions of Forest-based Bioenergy in Northern Wisconsin, USA." Dunn, J.L.*, Halvorsen, K.E., Schelly, C. ISSRM, Umea, Sweden, July 2017
- "The Future of Energy as an Integrated Nexus: Embedding Energy in Direct and Indirect Household Service Provision," Schelly, C., Shwom, R., Floress, K., Cuite, C., Halvorsen, K.E., Watkins, D., Agusdinata, D. Western Social Sciences Association Conference, San Francisco, CA, April 2017
- "Social and political inequality as challenges in technology diffusion: Evidence from government-funded improved cookstove program in rural Mexico," Banerjee, A.*, Schelly, C., Western Social Sciences Association Conference, April 2017

TEACHING AT MICHIGAN TECH

- Summer 2023 Introduction to Sociology; Science, Technology, and Society;
Racial Inequality (all online)
- Spring 2023 Racial Inequality
- Fall 2022 Science, Technology, and Society;
Social Thought, Contemporary Issues (graduate seminar)
- Summer 2022 Introduction to Sociology, Science, Technology, and Society (online)
- Fall 2020 History of Social Thought; Science, Technology, and Society
- Summer 2020 Introduction to Sociology (online); Science, Technology, and Society (online)
- Spring 2020 Professional Development
- Fall 2019 Science, Technology, and Society; Energy and Society
Student Evaluations for Energy and Society were in top 10% of University
- Summer 2019 Introduction to Sociology, Science, Technology and Society
- Spring 2019 Professional Development
- Fall 2018 Science, Technology, and Society; History of Social Thought
- Summer 2018 Introduction to Sociology, online summer session, Track A
- Spring 2018 Ethnographic Research Methods
- Fall 2017 Science, Technology, and Society;
Environmental Governance and Decision Making (graduate seminar)

- Summer 2017 Introduction to Sociology (online)
 Special Topics course (online): Racial Inequality in Contemporary America
- Spring 2017 Introduction to Sociology; Research Design (graduate seminar)
 Special Topics course (online): Racial Inequality in Contemporary America
- Fall 2016 Science Technology and Society; History of Social Thought
- Summer 2016 Introduction to Sociology, online summer session, Track B
- Spring 2016 Introduction to Sociology; Ethnographic Research Methods
- Fall 2015 Environmental Governance and Decision Making (graduate seminar)
- Spring 2015 Research Design (graduate seminar)
 History of Social Thought: Center for Teaching and Learning Creative Canvas Course Contest (C-4) Winner. Student Evaluations in top 10%
- Spring 2014 Social Inequality
- Fall 2013 Introduction to Sociology (Two sections)

TEACHING AWARDS

- Spring 2018 Exceptional Graduate Mentor Award, MTU Graduate Student Government

- Springs 2015 History of Social Thought
 Michigan Tech Center for Teaching and Learning
 Creative Canvas Course Contest (C-4) Winner
 Course Also Received Recognition for Student Evaluations in top 10%

PROFESSIONAL MEMBERSHIPS and SERVICE

- International Association for Society and Natural Resources (IASNR): 2015-Present
- Book review editor for ISSRM Journal, *Society and Natural Resources*, 2023-2026
 - Associate editor for ISSRM Journal, *Society and Natural Resources*, 2020-present
 - Editorial board for ISSM Journal, *Society and Natural Resources*, 2018-2020
 - IASNR Publications Committee: 2021-present
 - International Association for Society and Natural Resources conference 2016
 Held in Houghton, MI. Executive planning committee
 Scientific Advisory Committee
 - Faculty mentor for MTU-ASPEN, the student chapter of IASNR at MTU
- Rural Sociological Society, Member: 2013-Present
- Nominated and Elected for Council position, 2015-2017
 - Awards and Endowment Committee, 2015-2017
 Committee chair: 2016-2017
 - Elected to Ethics Committee, 2017-2019
 Committee chair: 2017-2018

- Nominated for RSS President position: 2022
 Western Social Sciences Association, Member: 2006-Present
 - Book Review Editor, *Social Science Journal*, 2015-2022
 - Annual conference section coordinator, Environmental Policy and Natural Resources Section, 2014-present
 Planetary Limits Academic Network (PLAN) Leadership Team
 2022-Present

ADDITIONAL PROFESSIONAL SERVICE

ENGAGEINFEWS Research Coordination Network:

Chair of Working Group on Justice, Equity, Diversity, and Inclusion
 Reviewer for many journals, including: *Environment & Behavior*; *Social Science Journal*; *Energy Policy*; *Energy Research and Social Science*; *Society & Natural Resources*, *Environment and Planning D: Society and Space*; *Social and Cultural Geography*; *Rural Sociology*; *Applied Environmental Education and Communication*; *Local Environment*; *Environmental Management*; *Science Technology & Human Values*; *Environmental Politics*; *Environments*; *Community Development*; *Sustainability*; *Applied Energy*; *Energy Efficiency*; *Smart Cities*; *Energies*; *Environmental Studies and Sciences*; *Environmental*; *Energy, Sustainability, and Society*; *Social Forces*; *Sociological Inquiry*, *SAGE Open*; *Sustainability: Science, Practice, and Policy*; *Socio-ecological Practice Research*

University of California Press: Reviewer. Invited book manuscript reviewer

Polity Press: Reviewer. Invited book manuscript reviewer

Rutgers University Press: Invited book manuscript review

National Science Foundation: Invited ad hoc reviewer, *Cultural Anthropology* (2016); Invited panel reviewer (spring 2017), Invited ad hoc review, Doctoral Dissertation Improvement (2017), Invited panel reviewer (spring 2019); Invited panel reviewer (spring 2021), Invited panel reviewer (spring 2021); Invited panel reviewer (fall 2021), Invited panel reviewer (spring 2022); Invited panel reviewer (fall 2022)

Invited Guest Editor for Special issue of *Sustainability*, 2020

External Program Review: Southern Illinois University Environmental Resources and Policy Program, Fall 2019

External Review of Package for Promotion to Tenured Associate Professor conducted by request of the Joseph R. Biden, Jr. School of Public Policy and Administration, Fall 2022

External reviewer of graduate theses: Swidburne University of Technology (Australia), University of Western Australia; Northeastern University Doctor of Law and Policy

UNIVERSITY SERVICE since 2017

Presidential Tech Forward Initiative on Sustainability & Resilience

- Working Group member, 2019 - 2021
- Working Group lead, 2021-present. I lead collaborative efforts to leverage \$1 million to catalyze transformative change in sustainability and resilience leadership

Early Career Mentoring (ECM) Program

- ECM external committee member (committee chair) 2020-2021
- ECM internal committee member, 2019-2020

Sustainable Futures Institute, Associate Director of Energy, 2019-2021

Student Chapter of the International Association of Society and Natural Resources (MTU-ASPEN) – Faculty Mentor

World Water Day 2020, Planning Committee

Summer Undergraduate Research Fellowship (SURF) Proposal Reviewer: 2017, 2019, 2022

Graduate Student Research Colloquium Judge: 2017, 2018

Communication Learning Goal Committee, 2014-present

General Education Assessment

Communication Learning Goal Assessment: 2022

Social Responsibility and Ethical Reasoning Learning Goal Assessment: 2017, 2020

Sustainability blog (blogs.mtu.edu/sustainability/): Contributor/co-administrator

DEPARTMENT SERVICE

Director of Graduate Studies, Fall 2017-Spring 2020 (3-year term)

Environmental and Energy Policy Graduate Program:

Active advisor

Department of Social Sciences

- Major Assessment: Fall 2014, Fall 2015, Fall 2016, Spring 2017, Spring 2019
- Environmental and Sustainability Science Major Development Committee
- Sustainable Communities MS: Program Development Committee Chair (2021-2022)
- Sustainable Communities MS Program Committee Chair, 2022-2023
- Grievance Committee Chair, 2022-2023

Search Committee, Fall 2016: Search Committee Chair

Search Committee, Fall 2015 Energy Policy Faculty Search
Committee chair: Kathy Halvorsen