

Matthew Houser

Curriculum Vitae



Senior Social Scientist,
The Nature Conservancy
Assistant Research Professor,
University of Maryland Center for
Environmental Science
214 S Washington Street, Easton,
MD 21601 (TNC office)
Horn Point Laboratory,
5475 Lovers Ln, Cambridge, MD
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Websites
[Google Scholar](#)

EMPLOYEMENT

2023-present

Senior Social Scientist, The Nature Conservancy Maryland/DC Chapter

2023-Present

Assistant Research Professor, University of Maryland Center for Environmental Science, Horn Point Laboratory

2021-2023

Regenerative Agriculture Fellow, The Nature Conservancy Maryland/DC Chapter and University of Maryland Center for Environmental Science, Horn Point Laboratory

2018-2021

Faculty Fellow and Assistant Research Scientist, Environmental Resilience Institute
Adjunct Assistant Research Scientist, Department of Sociology
Affiliate, School of Public and Environmental Affairs
Indiana University

2018

Instructor, Department of Sociology, Michigan State University

2013

Apprentice Farmer, Plowshare Produce, Huntington, Pennsylvania.

2012- 2013

Dialogue Facilitation Consultant, World in Conversation, The Pennsylvania State University

2011- 2013

Dialogue Facilitator, World in Conversation, The Pennsylvania State University

EDUCATION

2018 Ph.D. Michigan State University, Sociology

2015 M.A. Michigan State University, Sociology

2013 B.P. The Pennsylvania State University, Interdisciplinary Studies
Summa cum laude

RESEARCH INTERESTS

Political-Ecology

Implementation Science

Agricultural Systems

Public Opinion/Views

Nutrient Management

Social-Ecological Systems

REFEREED PUBLICATIONS (* denotes equal contributions; underline denotes student or technician contributor; + denotes postdoctoral contributor; ++ denotes non-academic contributor)

Total Peer-Reviewed Journal Articles Published Since 2017 = 29

In review

Houser, Matthew, Kristin Fisher, Anikka Fife, Amanda Bunn, Jenell McHenry. Evaluating Conservation Incentive Programs: Piloting A Novel Approach to Enabling Farmer Behavior Change. *Journal of Rural Studies*

Published

2026

Yoder, Landon, **Matthew Houser**, Kurt Waldman, Nathan Geiger (**Accepted, In Press**). The role of social norms in farmers' adoption of management practices. *Renewable Agriculture and Food Systems*

Barnes, Mallory Shellye Suttles, Erin Carman-Sweeney, **Matthew Houser**, Rachel Irvine, Sian Mooney, Kim Novick, Abagael Pruitt, Todd Royer, Kyle Seibert, Jennifer Tank, Xian Wang, and Landon Yoder (2025). Cover Crops as Nature-based Climate Solutions in the Midwestern US: Potential Benefits, Knowledge Gaps, and Opportunities for Transdisciplinary Work. *Earth's Future*.

2025

Martin, David. Kristin Fisher, **Matthew Houser**, Amy Jacobs, Su Fanok (2025). Using constructed value of information to evaluate research needs in conservation strategy assumptions. *Conservation Science and Practice*.

Houser, Matthew, Kristin Fisher++, Kayla Sainato++, Luke Peterson++, Paige Frautschy++, Anikka Fife (2025). Can yield warranties promote farmer practice adoption? Evidence from a two-region pilot study. *Journal of Soil and Water Conservation*

Houser, Matthew, Rachel Irvine, Sandra Marquart-Pyatt (2025). How row-crop farmers adapted nitrogen management in response to market volatility: Evidence from interviews in the US Midwest. *Society and Nature Resources*

Garvey, S.+ Davidson, E., Wagner-Riddle, C., Collins, A., **Houser, Matthew.**, Li, T., MacDonald, G.K., Tenuta, M., Kanter, D., Kyle, P., Wu, N., Congreves, K., Wang, Y., Cardenas, L., Zhang, X. (2025). Emerging opportunities and urgent research questions for green ammonia adoption in agriculture. *Nature Reviews Clean Technology*.

2024

Houser, Matthew, Brian Campbell⁺⁺, Amy Jacobs⁺⁺, Su Fanok⁺⁺, Sue Ellen Johnson⁺⁺ (2024). Farmers' participation in conservation programs: Identifying barriers and potential for innovative designs options. *Journal of Soil and Water Conservation*

2023

Irvine, Rachel, **Matthew Houser**, Sandra T. Marquart-Pyatt, Lana Bolin^{*}, Elizabeth Grennan Browning^{*}, Glade Dott^{*+}, Sarah E. Evans^{*}, Mia Howard^{*+}, Jennifer Lau^{*}, & Jay T. Lennon^{*} (2023). Soil health through farmers' eyes: Toward a better understanding of how farmers view and value soil health and manage for healthier soils. *Journal of Soil and Water Conservation*.

McCumber, Andrew⁺, Abigail Sullivan, **Matthew Houser**, Ranjan Muthukrishnan. (2023). Are lakes a public good or exclusive resource? Towards value-based management for aquatic invasive species. *Environmental Science and Policy*.

2022

Houser, Matthew (2022). Farmer motivations for excess nitrogen use in the US Corn Belt. *Case Studies in the Environment* 6(1), 1688823.
<https://doi.org/10.1525/cse.2022.1688823>

Houser, Matthew (2022). Does adopting a nitrogen best management practice lead to less nitrogen fertilizer use? *Agriculture and Human Values* 39, 79-94.
<https://doi.org/10.1007/s10460-021-10227-9>

Houser, Matthew, Beth Gazley, Heather Reynolds, Elizabeth Grennan Browning, Eric Sandweiss, & James Shanahan (2022). Public support for local adaptation policy: The role of social-psychological factors, perceived climatic stimuli, and social structural characteristics. *Global Environmental Change* 72, 102424.
<https://doi.org/10.1016/j.gloenvcha.2021.102424>

2021

Valliant, Julia, Analena Bruce, **Matthew Houser**, Stephanie Dickinson, & James Farmer (2021). Do farmers' outlooks on adaptive practices have anything to do with climate change? The case of product diversification in the U.S. Corn Belt. *Frontiers in Climate*. <https://doi.org/10.3389/fclim.2021.662847>

Houser, Matthew*, Abigail Sullivan*, Tara Smiley, Ranjan Muthukrishnan, Elizabeth Grennan Browning, Adam Fudickar, Pascal Title, Jason Bertram, & Maria Whiteman (2021). What fosters the success of a transdisciplinary environmental research institute? Reflections from an interdisciplinary research cohort. *Elementa: Science of the Anthropocene* 9: 1. DOI: <https://doi.org/10.1525/elementa.2020.00132>.

Yoder, Landon, **Matthew Houser**, Analena Bruce, Abigail Sullivan, & James Farmer (2021). Are climate risks encouraging cover crop adoption among farmers in the southern Wabash River Basin? Implications for policy. *Land Use Policy* 102: 105268.

2020

Houser, Matthew, Ryan Gunderson, Diana Stuart & Riva C. H. Denny (2020). How farmers “repair” the industrial agricultural system. *Agriculture and Human Values* 37(4): 983-997

- Reprint: Pp. 49-63 in Social Innovation and Sustainability Transition, edited by Geoff Desa and Xiangping Jia. Springer, 2022.

Reimer, Adam, **Matthew Houser** & Sandra Marquart-Pyatt (2020). Farming decisions in a complex and uncertain world: Nitrogen management in Midwestern corn agriculture. *Journal of Soil and Water Conservation* 75(5): 617-628.

Houser, Matthew & Diana Stuart (2020). An accelerating treadmill and overlooked contradiction in industrial agriculture: Climate change and nitrogen fertilizer. *Journal of Agrarian Change* 20: 215-237

Gunderson, Ryan, Diana Stuart, & **Matthew Houser** (2020). A political-economic theory of relevance: Explaining climate change inaction. *Journal for the Theory of Social Behaviour* 50(1): 42-63

2019

Houser, Matthew, Ryan Gunderson, & Diana Stuart (2019). Farmers’ perceptions of climate change in context: Toward a political economy of relevance. *Sociologia Ruralis* 59(4): 789-809

- Featured in: Oates, Bryce (2019). Farmers’ experience of climate change doesn’t alter politics, study says. *The Daily Yonder*.
- Featured in: Jones, Chris (2019). Cry me a Raccoon River. *The Science of Improving Iowa’s Water Quality Blog Post Series*, University of Iowa.
- One of *Sociologia Ruralis*’s most downloaded articles of the year

Houser, Matthew, Sandra Marquart-Pyatt, Riva Denny, Adam Reimer, & Diana Stuart (2019). Farmers, information, and nutrient management in the US Midwest. *Journal of Soil and Water Conservation* 74(3), 269-280

Marquart-Pyatt, Sandra, Chloe Qian, **Matthew Houser**, & Aaron McCright (2019). Climate change views, energy policy preferences, and intended actions across welfare

state regimes: Evidence from the European Social Survey. *International Journal of Sociology* 49(1), 1-26

Denny, Riva, Sandra Marquart-Pyatt, & **Matthew Houser** (2019). Understanding the past and present and predicting the future: Farmers' use of multiple nutrient best management practices in the Upper Midwest. *Society and Natural Resources* 32(7), 807-826

2018

Stuart, Diana & **Matthew Houser** (2018). Producing compliant polluters: Seed companies and nitrogen fertilizer application in US corn agriculture. *Rural Sociology* 83(4), 857-881

- Featured in: *Nature News & Views* review. Bellamy, Angelina S. (2018). Profit and hegemony in agribusiness. *Nature Plants*, 4(11), 867.
- One of *Rural Sociology*'s most downloaded articles in 2018
- One of *Rural Sociology*'s most cited articles in 2018-2019

Houser, Matthew, Riva Denny, Adam Reimer, Sandra Marquart-Pyatt, & Diana Stuart (2018). Strategies for enhancing University Extension's role as an agricultural information source. *Journal of Extension* 56(6): 6FEA5.

Houser, Matthew (2018). Who framed climate change? Identifying the how and why of Iowa corn farmers' framing of climate change. *Sociologia Ruralis* 58(1), 40-62

Stuart, Diana, Riva Denny*, **Matthew Houser***, Adam Reimer*, & Sandra Marquart-Pyatt (2018). Farmers' selection of sources of information for nitrogen management in the US Midwest: Implications for environmental programs. *Land-Use Policy* 70, 289-297

2017

Houser, Matthew, Diana Stuart, & Michael Carolan (2017). Is seeing believing? Applying a realist framework to examine agriculture and climate change. *Environmental Sociology* 3(4), 321-336

PEER REVIEWED BOOKS/EDITED VOLUMES

2026

Houser, Matthew (*Accepted, In Press*) Green Revolution Agriculture: The Treadmill of Production. In L. Drinwater (Ed.). *The Science and Practice of Agroecology*

Houser, Matthew (Invited Chapter Lead). Achieving a Transdisciplinary Turn in Environmental Sociology: Action-Oriented Theory. In J. Fox, I. Carrillo, J.P Sapinski, and D. Stuart (Eds.) (2026). *Environmental Sociology Now*. *University of California Press*.

2022

Houser, Matthew (Invited chapter lead), James Farmer, Elizabeth Grennen-Browning, & John Baeten. *Hoosier agriculture in a changing climate: Our food and farming system's history, contemporary challenges, and opportunities to sow resilience*. In Janet McCabe, Ellen Ketterson, James Shanahan, Gabe Filippelli, Kimberly Novick and Eva Allen (Eds.) (2022). Climate Change and Resilience: Lessons for Hoosiers and Beyond. *Indiana University Press*

Reynolds, Heather, **Matthew Houser**, Samantha Hamlin, Dana Habeeb, Jeffrey Wilson, Daniel Myers, & Gabriel Filippelli. *Weak versus strong resilience: The built environment and green infrastructure*. In Janet McCabe, Ellen Ketterson, James Shanahan, Gabe Filippelli, Kimberly Novick and Eva Allen (Eds.) (2022). Climate Change and Resilience: Lessons for Hoosiers and Beyond. *Indiana University Press*

Ellen Ketterson, Adam Fudickar, Alex Jahn, Keith Clay, Geoffrey Brown, Jennifer Lau, Daniel Becker, **Matthew Houser**, Allison Byrd, & Sarah Wanamaker. *Biodiversity and species movements*. In Janet McCabe, Ellen Ketterson, James Shanahan, Gabe Filippelli, Kimberly Novick and Eva Allen (Eds.) (2022). Climate Change and Resilience: Lessons for Hoosiers and Beyond. *Indiana University Press*

Chenyang, Lingxi, Eva Sanders Allen, Sanya Carley, Nikolaos Zirogiannis, David M. Konisky, Andrea Webster, Nathan Geiger, Beth Edwards, Eric Sandweiss, Daniel Meyers, Jeffery Wilson, Dana Habeeb, Samantha Hamlin, Heather Reynolds, Elizabeth Browning, James Farmer, Sarah Wanamaker, Jennifer Lau, Alex Jahn, **Matthew Houser**, et al. Conclusion: Moving Forward toward Resilience." In Janet McCabe, Ellen Ketterson, James Shanahan, Gabe Filippelli, Kimberly Novick and Eva Allen (Eds.) (2022). Climate Change and Resilience: Lessons for Hoosiers and Beyond. *Indiana University Press*

PUBLICATIONS FOR PUBLIC AUDIENCES (* denotes equal contributions; underline denotes student or technician contributor; + denotes postdoctoral contributor; ++ denotes non-academic contributor)

2026

Houser, Matthew, Shamitha Keerthi, Lyndsey Dowell, L., Eugen Yacobson, Amy Jacobs, Rachel King, Seth Harden, Nadia Alsadi, Lowell George, Holly McLaughlin (2026). Profitable Conservation Around the Margins: A Program to Restore Marginal Farmland to Deliver Greenhouse Gas and Habitat Benefits. The Nature Conservancy. Available at: nature.org/EdgeofField

2024

Gannon, Jennifer, **Matthew Houser** (2024). Maryland Farmers are Ahead of the Times: Reporting Widespread use of Conservation Practices, but Skeptical of Carbon Market. *Maryland Grain Producers Association*.

2023

Houser, Matthew, Jennifer Gannon, Amy Jacobs, Lindsay Thompson (2023). How will Maryland Commodity Agriculture Respond to Climate Change? Identifying

Challenges and Opportunities from Interviews with Farmers and Farm Advisors.
Available at: <https://agnr.umd.edu/research/research-and-education-centers-locations/harry-r-hughes-center-agro-ecology/scientific-3>

2022

Houser, Matthew, Amy Jacobs⁺⁺, Chase Colmorgen⁺⁺, Mike Dryden⁺⁺, Daniel Lawson⁺⁺, Dave Martin, Michelle Canick⁺⁺, Chase McLean⁺⁺, Rich Mason⁺⁺ (September, 2022). Meeting the Bay's Wetland Goals: Insights from the Delmarva Wetland Partnership. *The Nature Conservancy*. Available at: https://www.conservationgateway.org/Documents/Delmarva-Wetland-Partnership-Report_Final.pdf

Burhans, Molly, Matthew Houser, Eric Sandweiss*, Beth Gazley*, Elizabeth Grennan Browning*, Heather Reynolds*, & James Shanahan* (June, 2022) How Do Rural Hoosiers View Climate Change? Insights Toward Engagement and Policy Design. *Indiana University Environmental Resilience Institute*.

<https://eri.iu.edu/tools-and-resources/hoosier-life-survey/hls-rural-report.pdf>

Featured, with associated interviews, in: *The New York Times Climate Forum*, *Indiana Public Media*, *The Daily Yonder*

2021

Houser, Matthew, Eric Sandweiss, Beth Gazley, Elizabeth Grennan Browning, Heather Reynolds, & James Shanahan (June 29th, 2021). Examining the impact of 2020 on Hoosiers: COVID, Black Lives Matter, and Climate Change in Indiana. *Environmental Resilience Institute*. Available at: <https://eri.iu.edu/tools-and-resources/hoosier-life-survey/hls-examining-the-impact-of-2020-on-hoosiers.pdf>.

Featured in: *Indiana Environmental Report* and *The Herald Times*.

Houser, Matthew & Michael Hamburger (April 5th, 2021). Save Indiana's remaining wetlands, help halt SB 389. *News and Tribune*. Available at: https://www.newsandtribune.com/opinion/letter-ending-wetlands-protections-endangers-ecosystems/article_c49ab31c-9634-11eb-a815-13d9aeeecac0.html

Houser, Matthew & Michael Hamburger (April 1st, 2021). Save Indiana's remaining wetlands, help halt SB 389. *South Bend Tribune*. Available at: https://www.southbendtribune.com/news/opinion/viewpoint/viewpoint-protect-indiana-s-wetlands-for-generations-of-future-hoosiers/article_fcd2a88e-9166-11eb-ab8e-c3ab31bfabc3.html

Ellen Ketterson, Alex Jahn, & **Matthew Houser** (March 30th, 2021). Ending Indiana wetlands safeguards hurts wildlife. Here's how it also hurts us. *Indy Star*. Available at: <https://www.indystar.com/story/opinion/2021/03/30/indiana-wetlands-safeguards-protect-wildlife-bill-389/4797644001/>

Houser, Matthew & Michael Hamburger (March, 24th, 2021). Save Indiana's remaining wetlands, help halt SB 389. *The Herald Times*. Available at: https://www.hoosiertimes.com/herald_times_online/opinion/columns/column-save-

[indianas-remaining-wetlands-help-halt-sb-389/article_52da48c8-880b-11eb-af15-135c1cfe31c7.html](https://www.indianatimes.com/indianas-remaining-wetlands-help-halt-sb-389/article_52da48c8-880b-11eb-af15-135c1cfe31c7.html)

2020

Houser, Matthew* & Eric Sandweiss* (October 3rd, 2020). Viewpoint: The survey says: South Bend is uncertain about climate change. *South Bend Tribune*. Available at: https://www.southbendtribune.com/news/opinion/viewpoint/viewpoint-the-survey-says-south-bend-is-uncertain-about-climate-change/article_708d0c0c-fe68-11ea-9619-4beac85bce41.html

Houser, Matthew* & Eric Sandweiss* (September 23rd, 2020). Planning for change: IU's statewide survey finds area residents making some concessions to climate. *The Journal Gazette*. Available at: <https://www.journalgazette.net/opinion/columns/20200923/planning-for-change>

Houser, Matthew, Eric Sandweiss, Beth Gazley, Elizabeth Grennan Browning, Heather Reynolds, & James Shanahan (August 27th, 2020). The Hoosier Life Survey: Metropolitan Reports. *Environmental Resilience Institute*. Available at: <https://eri.iu.edu/tools-and-resources/hoosier-life-survey/metro-reports/index.html>

- Featured, with associated interview, in the *Indy Star* (front page story); *The Chicago-Tribune*, *The Herald Times*; *Evansville Courier & Press*; *Indiana Environmental Reporter*.

Sandweiss, Eric & **Matthew Houser** (August 21st, 2020). Hot enough for you? The politics of discussing Hoosier climate change. *Indiana Business Journal*. Available at: <https://www.ibj.com/articles/the-politics-of-discussing-hoosier-climate-change>

- Featured in *IU Research in the News*. Available at: <https://research.impact.iu.edu/research-news/podcasts/index.html>

Matthew Houser & Eric Sandweiss (July 14th, 2020). Hoosiers of color more likely to be affected by summer heat, agree that climate change is harming people now.

Environmental Resilience Institute News. Available at: <https://eri.iu.edu/news-and-events/news/archive/2020/20200714-hoosiers-of-color-more-likely-to-be-affected-by-summer-heat-agree-climate-change-is-harming-people.html>

- Research featured, with associated interviews, in: *Indiana Environmental Reporter*; *Great Lakes Now*.

Houser, Matthew, Eric Sandweiss, Beth Gazley, Elizabeth Grennan Browning, Heather Reynolds, & James Shanahan (May 29th, 2020). The Hoosier Life Survey: Politics and climate change at the crossroads. *Environmental Resilience Institute*.

- Report featured, with associated interviews, in: *The Indiana Daily Student*; *Indiana Environmental Reporter*; *E&E News Reporter*.

Houser, Matthew*, Eric Sandweiss*, Beth Gazley, Elizabeth Grennan Browning, Heather Reynolds, & James Shanahan (April 20th, 2020). The Hoosier Life Survey: Assessing Hoosier preparedness for environmental change, extreme weather and

other risks. *Environmental Resilience Institute*. Available at: <https://eri.iu.edu/tools-and-resources/hoosier-life-survey/hls-summary-report.pdf>

- Report featured by: *All IN* (broadcast across all Indiana NPR stations), *The Indy Star*; *Indiana Environmental Reporter*; *The Herald Times*, *WFHB Community Radio*, among others.

Grennan Browning, Elizabeth and **IU Research Fellows** (April 20th, 2020). Earth Day in the coronavirus era: Can resilience thinking provide a way forward? (commentary). *Mongabay*. Available at: <https://news.mongabay.com/2020/04/earth-day-in-the-coronavirus-era-can-resilience-thinking-provide-a-way-forward/>

2019

Houser, Matthew (September 5th, 2019). How many Americans believe in climate change? Probably more than you think, research in Indiana suggests. *The Conversation*. Available at: <https://theconversation.com/how-many-americans-believe-in-climate-change-probably-more-than-you-think-research-in-indiana-suggests-118501>

- Picked up by over 20 media outlets, including: *US News and World Report*, *The Houston Chronicle*, *The San Francisco Chronicle*, *The National Interest*.
- Reads as of 5/1/20: 42,552
- Featured in: Nash, Stephen (2019). Nash: Climate Change, Lynchburg's Heat and Silence. *The News & Advance*. Available at: https://www.newsadvance.com/opinion/columnists/nash-climate-change-lynchburg-s-heat-and-silence/article_79e89cfe-a1c7-5b34-80f7-b2ae1561f739.html

2018

Sullivan, Abigail & **Matthew Houser** (November 30th, 2018). Addressing climate change through degrowth: It may be less contentious than you think. *Common Dreams*. Available at:

<https://www.commondreams.org/views/2018/11/30/addressing-climate-change-through-degrowth-it-may-be-less-contentious-you-think>

Houser, Matthew & Andrea Webster (October 22nd, 2018). Many Midwesterners will likely never believe in climate change. Here's how to encourage them to act anyway. *The Conversation*. Available at: <https://theconversation.com/many-midwesterners-will-likely-never-believe-in-climate-change-heres-how-to-encourage-them-to-act-anyway-105199>

- Picked up by over 16 media outlets, including: *The Chicago Tribune*, *San Francisco Chronicle*, *Seattle Post-Intelligencer*.
- Reads as of 5/1/20: 5,529
- Featured in Suarez, Cyndi (2018). How to craft a narrative for social change: A climate example. *Non-Profit Quarterly*, *Climate Change and Environment*. Available at: <https://nonprofitquarterly.org/how-to-craft-a-narrative-for-social-change-a-climate-example/>

DATASETS

2021

Houser, Matthew, Eric Sandweiss, Beth Gazley, Elizabeth Grennan Browning, Heather Reynolds, & James Shanahan. (2021). The Hoosier Life Survey Dataset. Indiana University, Bloomington, IN: Environmental Resilience Institute.

GRANTS, AWARDS, ENDOWMENTS AND FELLOWSHIPS

(* denotes equal contributions; underline denotes undergraduate student)

TOTAL EXTERNAL PROJECT FUNDS AWARDED (as PI or co-PI): \$34,310,126

Grants

External, In Review

Lian, D., Zhang, X., **Houser, M.** DSFAS Partnership: An Open-Source Platform For Curation And Fusion Of Remote Sensing Data To Enhance Nutrient Management And Monitoring. United States Department of Agriculture, Agriculture and Food Research Initiative Competitive Grants Program Foundational and Applied Science Program (\$799,000 requested).

External, Approved for Funding

2026

Houser, M. Do incentive programs promote persistence practice use? Mid-Atlantic 4R Association (\$21,000 requested; approved for funding; awaiting contract).

External, Funded

2026

Fisher, K., Jacobs, A., **Houser, M.**, Using Technology to Scale the Adoption of Adaptive Nitrogen Management (DE, MD, PA, VA). National Fish and Wildlife Foundation (\$989,814.37 requested; funded in full).

Nardin, W. **Houser, M.**, Franchi, G., The Socio-Agri-Geomorphological Evolution (SAGE) of the Farm-Marsh boundary in the face of sea level rise: Making models usable to encourage adaptive management. Maryland Sea Grant (\$200,000 requested; funded in full).

2025

Houser, M., D. Sweeney, A. Jacobs. Advancing the Economic and Environmental Sustainability of Historically Underserved Farms in the Chesapeake Bay Watershed. United States Department of Agriculture Sustainable Agriculture Research and Education (\$249,000 requested, funded in full)

Houser, M., Evaluating the impact of farmer incentive payments. Mid Atlantic 4R Association. (\$9,700 requested, funded in full)

Silbe, G., Silva, L., **Houser, M.**, Guo, X. Harnessing Machine Learning and Satellite Remote Sensing to Assess the Impact of Best Management Practices in Water Quality. Harry R. Hughes Center for Agroecology (requested: \$103,000, funded in full).

Houser, M., & Jacobs, A. Increasing Effectiveness of Landowner Engagement to Accelerate Wetland Restoration Across the Chesapeake Bay Watershed. Chesapeake Bay Trust (requested: \$97,000, funded in full).

McHenry, J., K. Fisher, **M. Houser**. Accelerating Water Quality Outcomes Through Stronger Nutrient Stewardship Partnerships (DE, MD, PA). National Fish And Wildlife Foundation. Subaward to 0602.24.083202 (subaward to TNC in the amount of \$180,679).

2024

Fisher, K, **Houser, M.**, Jacobs, A. Fanok, S. Empowering Farmer Innovation to Advance Nutrient Management in the Chesapeake Bay Watershed. *United States Department of Agriculture, Conservation Innovation Grant* (\$2,200,000 requested, funded in full)

- Role: Co-PI/Lead Social Scientist

2023

Fisher, K., Jacobs, A., Mirsky, S., **Houser, M.**, Reberg-Horton, C., Basso, B., Fanok, S. Scaling the adoption of adaptive nitrogen management using low-cost cover crop imaging and nitrogen crediting technology – 3083. United States Department of Agriculture, Regional Conservation Partnership Program (RCPP) (Requested: \$21,723,626; *\$16,225,00 approved for funding*).

- Role: Co-PI/Lead Social Scientist

Zhang, X., Riddle-Wagner, C., **Houser, M.**, Davidson, E., Kanter, D., Davis, C., Liu, D., Wu, N., Harris, L., Elmore, A., Macdonald, G., The Global Nitrogen Innovation Center for Clean Energy and the Environment (NICCEE). The National Science Foundation Global Centers (\$5,000,000 requested; paired with an equivalent of \$3M in both UK and Canada; *Total = \$11,000,000; Funded in Full*).

- Role: Co-PI/Lead Social Scientist

Houser, M*, Jacobs, A.* , Dunn, M.* , & Johnson, K.*. Profitable Conservation Around the Margins: A Program to Restore Marginal Farmland to Deliver Greenhouse Gas and Habitat Benefits. *Corteva*. (\$992,661 requested; *\$520,000 awarded*)

- Role: PI/Lead Social Scientist

Jacobs, A. **Houser, M.** Chase Colmorgen, Daniel Lawson, Mike Dryden, Chris McLeod. The Delmarva Wetland Partnership: Breaking Barriers to Accelerate Wetland Restoration on Delmarva. *National Fish and Wildlife Foundation – Chesapeake Bay Innovative Nutrient and Sediment* (\$997,612 requested; funded in full).

- Role: Co-PI/Lead Social Scientist and Outreach Coordinator

2022

Novick, Kimberly, Jennifer Tank, Todd Royer, Landon Yoder, Shellye Shuttles & **Matthew Houser**. DISES-L Socio-ecological dynamics determining the climate mitigation and adaptation potential of midwestern US agroecosystems. *National*

Science Foundation Dynamics of Integrated Socio-Environmental Systems
(\$1,599,329 requested; funded in full).

Role: Key Personnel

Houser, Matthew, Amy Jacobs, and Lindsay Thompson. Advancing farmers' capacity to prepare for and address climate change: Using an integrated, social science approach to identifying technical support related barriers and opportunities. *Harry R Hughes Center for Agro-Ecology, State of Maryland* (\$90,000 requested; full proposal requested; finalist presentation requested; funded at \$47,064.34).

- Private donation received to support project (2022): \$48,000
- Role: PI

2020

Lau, Jennifer, **Matthew Houser**, Elizabeth Grennan Browning, Sandra Marquart-Pyatt, Sarah Evans, & Jay Lennon. CNH2-L Resilience to drought or a drought of resilience? How farmers' adaptive management strategies might limit resilience provided through ecological adaptation. *National Science Foundation Dynamics of Integrated Socio-Environmental Systems* (Award: BCS-2009125; \$1,590,000 requested; Funded at \$1,431,000).

Role: Co-PI/Lead Social Scientist

2019

Muthukrishnan, Ranjan, Abigail Sullivan, & **Matthew Houser**. What will Midwestern aquatic invasions look like in a changing climate? *Minnesota Aquatic Invasive Species Research Center* (\$39,000 requested; Funded in full)

Role: Co-PI

External, Not Funded

Zhang, X., **Houser, M.**, Fisher, K., Garvey, S., Lan, Hai., Sturtevant, J., Liang, D., Model–Data Integration for Scalable Nitrogen Use Efficiency Monitoring. Taylor Geospatial Institute. (\$550,000 requested).

Houser, M. Catalyzing Partnerships to Accelerate Wetland Restoration Across the Bay Watershed. National Fish and Wildlife Foundation, Small Watershed Grant (\$149,000 requested, not funded)

Houser, Matthew, Kristin Fisher, Amy Jacobs, Ryan Stockwell, Leif Fixen, Rabobank/TNC Collaborative Proposal. RaboBank (\$450,000 requested, not funded).

Fisher, Kristin, **Matthew Houser**, Xin Zhang, Dean Collamer, Collaboratively Defining Sustainable N Management Goals for Chesapeake Agriculture. The Science for Nature and People Partnership (\$160,000 requested; advanced to second round of reviews)

Houser, Matthew, Amy Jacobs, Su Fanok, Andrew Lacatell, Mike Dunn, Jessica D'Ambrosio, Paige Frautschy, Maria Lemke, Andrew Elmore. Targeted Lands,

Tailored Engagement: A Socio-Ecological Systems Approach to Conservation Engagement. *Foundation for Food and Agricultural Research* (\$401,500 requested; not funded).

Fisher, Kristin, **Matthew Houser**, Amy Jacobs, Su Fanok. Accelerating Adoption of Precision Nutrient Management (4R) Practices with Trusted Advisors and Tiered Incentives. *USDA-NRCS Conservation Innovation Grants On Field Trials* (\$2,200,000 requested; not funded).

Internal, Funded

2023

Su Fanok, **Matthew Houser**, Amy Jacobs. An Opportunity to Improve Feed Management, Herd Health, and Water Quality, *The Nature Conservancy Chesapeake Bay Program* (\$50,000)

2022

Fales, Mary, **Matthew Houser**, Jessica D'Ambrosio, Benjamin Wickerham. Mapping Farmer Information Networks Across Two States. *The Nature Conservancy* (\$114,000 requested, *Funded in full*).

Role: Co-PI/Lead Social Scientist

2021

Burnhans, Molly & Matthew Houser. Climate change risk perceptions: How can we better understand, engage with, and prepare rural populations? *Sustainability Research Development Grants* (\$3,000 requested; *Funded in full*).

Role: Faculty PI

Howard, Mia, Jennifer Lau, **Matthew Houser**, Elizabeth Grennan Browning, Maria Whiteman, & Sophia Heymans. Visualizing the unseen microbial actors of environmental resilience through art. *Indiana University Grand Challenge Prepared for Environmental Change's Call for High Impact Ideas* (\$6,900 requested; funded at \$6,000; *declined*).

Role: Co-PI

Houser, Matthew, Elizabeth Grennan Browning, & Jennifer Lau. Breaking New Ground: Teaching Climate Change Solutions Through Food, Farms and Soils. *Indiana University Grand Challenge Prepared for Environmental Change's Call for High Impact Ideas* (\$21,000 requested; funded at \$3,000; *declined*).

Role: PI

2020

Houser, Matthew. Hoosier Life Survey 2.0: Life Under Duress. *Sustain IU and Indiana University's Integrated Program in the Environment's Sustainability Scholars program* (Funds an Undergraduate Research Assistant for the Fall and Spring Semesters; *Awarded*)

Role: PI

Houser, Matthew. Resilience to Drought or a Drought of Resilience? *Sustain IU and Indiana University's Integrated Program in the Environment's Sustainability Scholars program* (Funds an Undergraduate Research Assistant for the Fall and Spring Semesters; *Awarded*)

Role: PI

Houser, Matthew, Eric Sandweiss, Beth Gazely, Elizabeth Grennan Browning, Heather Reynolds, & James Shanahan. Hoosier Life Survey 2: Indiana Life Under Duress. *IU Grand Challenge: Prepared for Change* (Requested \$40,000; *Funded in Full*)

Role: PI

2019

Houser, Matthew. Hoosier Life Survey: Assessing public perceptions of climate change and support for climate resilience across Indiana communities. *Sustain IU and Indiana University's Integrated Program in the Environment's Sustainability Scholars program* (Funds an Undergraduate Research Assistant for the Fall and Spring Semesters; *Awarded*)

Role: PI

Houser, Matthew. Midwest farmers' views of, experiences with and responses to climate change: The Farmer Panel Survey. *Sustain IU and Indiana University's Integrated Program in the Environment's Sustainability Scholars program* (Funds an Undergraduate Research Assistant for the Fall and Spring Semesters; *Awarded*)

Role: PI

Houser, Matthew, Jennifer Lau, & Elizabeth Grennan Browning. Resilience to drought or a drought of resilience? How farmers' adaptive management strategies might limit resilience provided through ecological adaptation. *Indiana University Grand Challenge Prepared for Environmental Change* (\$174,890 requested; *Funded at \$31,173--declined*).

Role: PI

Muthukrishnan, Ranjan Abigail Sullivan, & **Matthew Houser.** What will Midwestern aquatic invasions look like in a changing climate? *Indiana University Grand Challenge Prepared for Environmental Change* (\$333,417 requested; *Funded at \$113,601*).

Role: Co-PI

Awards, Endowments and Fellowships

2020

Indiana Department of Environmental Management Governor's Award for Environmental Education and Outreach. *Awarded to the Educating for Environmental Change Program*

Role: Team Member/Annual Presenter

2018

Environmental Resilience Institute Fellowship, Indiana University (\$425,000)

2018

Mother nature, nitrogen fertilizer, and Michigan agriculture: Farmer survey, The Graduate School Research Enhancement Award, Michigan State University (\$4,500)

Landscape simplification and the drivers of Midwestern farm size increases, Kellogg Biological Station Long-Term Ecological Research Program Research Experiences for Undergraduates Program (Not Funded)

2017

A comparative analysis of Michigan farmers' and the general public's climate change views, Michigan State University Institute for Public Policy's Social Research's State of the State Survey Award for Doctoral Students (\$14,000)

Farmer fertilizer use and climate change: a social-ecological systems approach, Kellogg Biological Station Long-Term Ecological Research Program Summer Research Fellowship for Long-term Ecological Research (\$7,000)

Reacting to biophysical climate change: Michigan corn farmers' beliefs, perceptions and actual nitrogen fertilizer use, Charles P. and Linda A. Thompson Endowment (\$4,400)

Graduate Office Fellowship Award, Michigan State University (\$4,400)

2016

Department of Sociology Teaching Workshop Instructor Award (\$1,100)

Graduate Office Fellowship Award, Michigan State University (\$2,200)

2015

Graduate Office Fellowship Award, Michigan State University (\$740)

2014

Rural Sociological Association Sociology of Agriculture and Food Research Interest Group Outstanding Student Paper Award

Conference Travel Funding, Michigan State University (\$350)

TEACHING AND MENTORSHIP

Graduate Course Instructor

2025

Environment and Society, *MEES 620*, University of Maryland Center for Environmental Science, Horn Point Laboratory (3 credit, “foundation” graduate level course; 12 students)

Role: Lead Instructor

2024

Environment and Society, *MEES 620*, University of Maryland Center for Environmental Science, Horn Point Laboratory (3 credit, “foundation” graduate level course; 16 students)

Role: Lead/Sole Instructor

2023

Environment and Society, *MEES 620*, University of Maryland Center for Environmental Science, Horn Point Laboratory (3 credit, “foundation” graduate level course; 4 students)

Role: Lead Instructor (team taught with Bill Dennison, Kenny Rose, and Matt Gray)

2022

Science Writing and Communication, MEES, University of Maryland Center for Environmental Science, Horn Point Laboratory (2 credit graduate level course; 15 MS and PhD students in total)

Role: Co-Instructor

Undergraduate Course Instructor

2018

Social inequality, Department of Sociology, *Michigan State University* (200 level, 3 credit course; 40 undergraduate students in total).

2013

Advanced dialogue facilitation, Department of Sociology, *The Pennsylvania State University* (Co-Instructor: Laurie Mulvey).

Guest Lectures/Seminars

2025

“Introduction to Qualitative Methods” in *Emerging Nitrogen Technology and Sustainability Challenges from Farm to Fork* (MEES 698N) University of Maryland Center for Environmental Science, Horn Point Laboratory.

“Tips and Trips for Interviewing Hard to Reach Subjects” in *Emerging Nitrogen Technology and Sustainability Challenges from Farm to Fork (MEES 698N)* University of Maryland Center for Environmental Science, Horn Point Laboratory.

2023

“Communicating Science to a public audience” in *Science Writing and Communication*, University of Maryland Center for Environmental Science, Horn Point Laboratory.

“Nitrogen Fertilizer use and loss in the US Midwest” in *Sustainable nitrogen management with a transdisciplinary approach: Co-developing science communication products with stakeholders*. Marine Estuarine Environmental Science (MEES) Program, University of Maryland Center for Environmental Science.

2022

“How to achieve sustainability” in: *Environment & Society*, Marine Estuarine Environmental Science (MEES) Program, University of Maryland Center for Environmental Science, Horn Point Laboratory.

2021

“Sustainability” in: *Environment & Society*, Marine Estuarine Environmental Science (MEES) Program, University of Maryland Center for Environmental Science, Horn Point Laboratory. Co-taught with Xin Zhang (UMCES, Appalachian Lab)

2020

“Farm Bill Conservation Programs ” in: Agriculture, Environment and Governance (V450/550), School of Public and Environmental Affairs, Indiana University

“The Problem of Surplus” in: Agriculture, Environment, and Governance (V450/550), School of Public and Environmental Affairs, Indiana University

2019

Facilitating group dialogues: Tips and Techniques for Success, *Environmental Resilience Institute, Indiana University* (Instructor and developer)

2018

Social science research in agro-ecological systems: A practical methods guide, *Kellogg Biological Station Long Term Ecological Research Site, Michigan State University* (Instructor and primary developer)

Mentorship/Supervisees

2025-

Junk Suk Byun, PhD Committee Member, University of Maryland Center for Environmental Science.

Hannah Claggett, PhD Committee Member, University of Maryland Center for Environmental Science

Alaiya Cave, PhD Committee Member, University of Maryland Eastern Shore

Ayanna Healy, MA Committee Member, University of Maryland College Park

2024-

Anikka Fife, MS Committee Chair, University of Maryland Center for

Environmental Science.

Samantha Heyn, Conservation Information Manager, The Nature Conservancy

2024-2025

Dr. Lorena Silva, Applied Science Fellow, The Nature Conservancy

2023-2025

Rachel King, Conservation Social Science Technician, The Nature Conservancy

2021-2025

Rachel Irvine (Lead Research Technician on *CNH2-L Resilience to drought or a drought of resilience* project)

2023-2024

Meghna Matthew, MS Committee Member, University of Maryland Center for Environmental Science

2020-2022

Molly Burhans (Undergraduate, Indiana University, Sustainability Scholar Funded Research Assistant)

2020-2021

Victoria Seest (Undergraduate, Indiana University, Sustainability Scholar Funded Research Assistant)

2019-2021

Isabella Yallapragada (Undergraduate, Indiana University, Sustainability Scholar Funded Research Assistant)

2019-2020

Charlotte McFerran (Undergraduate, Indiana University, Sustainability Scholar Funded Research Assistant)

- Presented: McFerran, Charlotte & Matthew Houser. Why do people assume they are exempt from the impacts of climate change? Exploring the drivers of perceived personal risk in America's heartland. *Ecological Society of America*. August 2020.

OUTREACH/ENGAGEMENT

2026

Expert Panelist, Why we deliver incentive programs and their impact. Mid-Atlantic 4R Nutrient Stewardship Association Annual Meeting, Lancaster PA, February 9th

2025-

Advisory Group Member, Envision the Choptank's Producer-Led Bundling Agricultural Practices (Producer-Led) Program, Maryland's Whole Watershed Program.

2025

Invited Speaker, The Voucher Program: A Social Evaluation. Funding, Findings and Fertilizer, The Mid-Atlantic 4R Nutrient Stewardship Association Webinar. December 5th.

Invited Speaker, TNC and the Chesapeake Bay: Supporting the transition to regenerative nutrient management. Fertilizer Industry Roundtable, Chesapeake Farms, Corteva Agriscience, October 15th

Invited Speaker, Can "Green" Technologies Make Agriculture Sustainable? Considering Jevons Paradox and Other "Rebound Effects." The Nature Conservancy's Food Systems Science Brown Bag Series. Webinar, July 10th, 2025

Session Co-Lead (w/ Dr. Robyn Wilson)/Presenter, Evaluating Farmer Incentive Programs. Michigan's State of the Western Lake Erie Basin Conference: Advancements in the Watershed. Adrian College, MI. June 26.

Invited Consultant/Expert, Western Lake Erie Basin Social Science Expert Panel, University of Michigan and State of Michigan's Quality of Life Agencies (Michigan Departments of Agriculture & Rural Development; Environment, Great Lakes, & Energy; and Natural Resources)

Invited Speaker, The Voucher Program: A Social Evaluation. Funding, Findings and Fertilizer, The Mid-Atlantic 4R Nutrient Stewardship Association Webinar. December 5th.

Invited Speaker, TNC and the Chesapeake Bay: Supporting the transition to regenerative nutrient management. Fertilizer Industry Roundtable, Chesapeake Farms, Corteva Agriscience, October 15th

2024

Invited Speaker, Derisking Regenerative Agriculture: Lessons from Warranty Pilots. The Nature Conservancy, Innovation Lab Seminar. October 21st

Invited Speaker, Nutrient Management in a Changing Climate: Using Social Science to Identify Conservation Challenges and Opportunities. Harry R. Hughes Center for Agro-Ecology. April 29th, 2024 (120 attendees)

2023-2024

Invited Consultant, Rabobank (developing nitrogen management incentive program)

2023

Invited Consultant, Mid-Atlantic 4-R Association Strategic Planning Team.
September-December 2023

Invited Speaker, *Briefing to Maryland Secretary of Agriculture*. University of Maryland Center for Environmental Science Appalachian Lab, June 15th.

Speaker, The Nature Conservancy MD/DC Chapter, Connecting Food, Chesapeake Bay, and Climate, Board of Trustees Retreat, May 4th, Eastern Shore Conservation Center, Easton MD

Invited Speaker, Targeting and tailoring engagement to accelerate wetland restoration The Delmarva Wetland Partnership, Delmarva Land and Litter Collaborative Steering Committee Meeting; April 20th 2023

Invited Speaker, “Agricultural engagement needs to meet Bay Goals.” Briefing to Chesapeake Bay Commission Director, University of Maryland Center for Environmental Science, Chesapeake Biological Laboratory, April 12th, 2023

2022

Invited Speaker, The Nature Conservancy MD/DC Chapter, Integrating Social Science Into Agricultural Conservation, October All Staff Meeting, October 4th, Adkins Arboretum, MD

Invited Speaker, The Nature Conservancy MD/DC Chapter, Integrating Social Science Into Agricultural Conservation, Board of Trustees Meeting, September 23rd, Dodon Vineyards, Annapolis, MD

Co-Speaker (w/ Victoria Coles), The North East Soil Conservation District Meeting, What’s in Store for the Eastern Shore? August 23rd, Cambridge, MD

Speaker, Water For Agriculture, *The Chesapeake Foodscape – A Complex Balancing Act*, March 30th, Virtual

Invited Speaker, The Pennsylvania 4-R Alliance Workshop, *What's shaping farmers' nitrogen management*, February 23rd, Mt. Joy, PA.

2021

Invited Panelist, Prepared for Environmental Change: The social dimensions of climate change webinar. Indiana University, Office of the Vice President for Research. November 29th, Virtual.

Team Member/Presenter, Educating for Environmental Change: The IU / WonderLab Summer Science Institute on Teaching Climate Change. *Presented on how Indiana residents view climate change to primary school teachers, June 15th

2020

Presenter, The Hoosier Life Survey. *Earth Charter Indiana Climate Leadership Summit 5*. August 27th, Virtual.

Presenter, The Hoosier Life Survey. *The National Weather Service: Indiana State Climate Service Team*, August 24th, Virtual.

Matthew Houser, Eric Sandweiss (Leads); Elizabeth Grennan-Browning, Kimberly Cook, Beth Gazley, Jonathan Hines, Joe Lange, Justin Peters, Heather Reynolds, James Shanahan (Collaborators). The Hoosier Life Survey Public Opinion Maps. *Environmental Resilience Institute*. *Interactive map where the public and key stakeholders can freely explore survey results at the state, regional and metro-level.

Team Member/Presenter, Educating for Environmental Change: The IU / WonderLab Summer Science Institute on Teaching Climate Change. *Presented on how Indiana residents view climate change to primary school teachers, June 16th and June 25th

Invited Presentation, Agriculture and the Social Sciences in Indiana.

*Presented to conservation outreach specialists on the state of farmers' climate change views

2019

Invited Presentation, Indiana State Department of Agriculture Board of Directors. *Presented on climate change, Indiana agriculture and farmers' views.

Invited Presentation, The IU / WonderLab Summer Science Institute on Teaching Climate Change. *Presented on how Indiana residents view climate change to primary school teachers, July 10th

2018

Invited Presentation, Communicating climate change: How to engage climate skeptics. *Ohio-Kentucky-Indiana Sustainability Director Network*, December 14, Zoom seminar.

MEDIA

Tevised Interviews

2021

Digging Deeper: Climate Matters. WPTA 21, Fort Wayne Indiana. Available at: https://wpta21.com/2021/08/19/digging-deeper-climate-matters/#.YR8PFT_0KrA.twitter

Climate change from a social scientist's perspective - how people' views have changed in recent years. WTHI-TV10, Terre-Haute, IN. Available at: <https://www.wthitv.com/content/news/Climate-change-from-a-social-scientists-perspective---how-people-views-have-changed-in-recent-years--573848811.html>

Washed Away: How extreme events are changing attitudes on climate. *abc57news, South Bend, IN*. Available at: <https://abc57.com/news/washed-away-how-extreme-events-are-changing-attitudes-on-climate>

Radio Interviews
2020

The Hoosier Life Study. “All IN” National Public Radio (NPR) Podcast (broadcast across all Indiana NPR stations). May 1. Available at: <https://www.npr.org/podcasts/747071269/all-i-n>

The Hoosier Life Study. *WFHB Local News*. April 27. Available at: <https://wfhb.org/news/wfhb-local-news-april-27-2020/>

2019

Study: Majority of Hoosiers believe climate change is real. *Public News Service*. Available at: <https://www.publicnewsservice.org/2019-09-06/climate-change-air-quality/study-majority-of-hoosiers-believe-climate-change-is-real/a67676-1>

- Picked up by 14 media outlets

2018

Expert Panelist, The impact of climate change on Indiana. *Noon Edition, WFIU Bloomington, Indiana Public Media*, October 24. Available at: <https://indianapublicmedia.org/noonedition/impact-climate-change-indiana/>

Newspaper Interviews
2025

Blankenship, Karl (2025). Nature Conservancy program rewards nutrient efficiency on farms. Available at: https://www.bayjournal.com/news/pollution/nature-conservancy-program-rewards-nutrient-efficiency-on-farms/article_f0cd9c55-5a5c-4c20-8b00-a61f430114e8.html

Blankenship, Karl (2025). The Chesapeake Bay balancing act. Available at: https://www.bayjournal.com/ag-and-the-bay/the-chesapeake-bay-balancing-act/article_46d12ce1-9652-4325-9de2-8aadd76fce19.html

2024

Lefever, Dave (2024). Nitrogen Management at Center of Climate Conversation. *Lancaster Farming*. Available at: https://www.lancasterfarming.com/farming-news/conservation/nitrogen-management-at-center-of-climate-conversation/article_93d657da-072a-11ef-8540-bf0b6d286e68.html

2022

Biron, Carey. (December 12th, 2022). U.S. Carbon Farming Takes Root-but do the economics add-up? *Context, Thomas Reuters Foundation*. Available at: <https://www.context.news/net-zero/us-carbon-farming-takes-root-but-do-the-economics-add-up>

Melotte, Sarah (August 25th, 2022). Research: Rural Climate Change Opinions Are More Complicated Than You Might Think. *The Daily Yonder*. Available at: https://dailyyonder.com/research-rural-climate-change-opinions-are-more-complicated-than-you-might-think/2022/08/25/?gclid=CjwKCAjwpqCZBhAbEiwAa7pXeXscVn5hTgfRFINRxJHYyH0nDdoAQByHi9jJaLLZa7DIZEdSFyN77RoC0XsQAvD_BwE

Andreoni, Manuela (July 19th, 2022). Here's a secret about your neighbors. *The New York Times: Climate Forward*. Available at: <https://tinyurl.com/v7ha6czr>

Thiele, Rebecca (July 19th, 2022). Study: Leaving rural Hoosiers out of climate conversations fuels skepticism, resentment. *Indiana Public Media*. Available at: <https://www.wfyi.org/news/articles/study-leaving-rural-hoosiers-out-of-climate-conversations-fuels-skepticism-resentment>

2021

Saenz, Enrique (July 6th, 2021). Half of all Hoosiers expect Decade of Disease, Extreme Weather and Economic Crisis. *Indiana Environmental Reporter*. Available at: <https://www.indianaenvironmentalreporter.org/posts/half-of-all-hoosiers-expect-decade-of-disease-extreme-weather-and-economic-crisis>

2020

Cusick, Daniel (October 7th, 2020). Pence called climate change a 'myth.' Does Ind. Agree? *E&E News reporter*. Available at: <https://www.eenews.net/climatewire/stories/1063715659>

Reschke, Michael. (Sept. 13th, 2020). IU reports show feelings on climate change in Indiana's metro areas. *The Herald Times*. Available at: https://www.hoosiertimes.com/herald_times_online/news/iu/iu-reports-show-feelings-on-climate-change-in-indianas-metro-areas/article_6f895200-f45b-11ea-95d0-5bc9d4bbcdac.html

Wilson, Mark (2020). Survey: Evansville residents among most skeptical in the state on climate change. *Evansville Courier & Press*. Available at: <https://www.courierpress.com/story/news/local/2020/09/05/survey-evansville-residents-among-most-skeptical-state-climate-change/5695420002/>

Gibson, London (2020). Hoosiers support climate policies — even if they don't believe in climate change. *Indy Star* (Front page story). Available at: <https://www.indystar.com/story/news/environment/2020/09/02/indiana-university-survey-shows-hoosier-support-climate-policies/5677764002/>

Saenz, Enrique (2020). Survey analysis finds race plays role in perception, vulnerabilities to climate change in Indiana. *Indiana Environmental Reporter*. Available at: <https://www.indianaenvironmentalreporter.org/posts/survey-analysis-finds-race-plays-role-in-perception-vulnerabilities-to-climate-change-in-indiana>

Saenz, Enrique (2020). Survey finds Hoosiers' political divisions extend to environmental issues. *Indiana Environmental Reporter*. Available at: <https://www.indianaenvironmentalreporter.org/posts/indiana-university-survey-finds-hoosiers-political-divisions-extend-to-environmental-issues>

McLaughlin, Lauren (2020). Survey report suggests environmental policy is nonpartisan issue for most Hoosiers. *The Indiana Daily Student*. Available at: <https://www.idsnews.com/article/2020/06/survey-report-suggests-environmental-policy-is-nonpartisan-issue-for-most-hoosiers>

Saenz, Enrique (2020). Survey finds Hoosiers underestimated risk of major disease outbreak. *Indiana Environmental Reporter*. Available at: <https://www.indianaenvironmentalreporter.org/posts/survey-finds-hoosiers-underestimated-risk-of-major-disease-outbreak>

2019

Oates, Bryce (2019). Farmers' experience of climate change doesn't alter politics, study says. *The Daily Yonder*. Available at: <https://www.dailyyonder.com/farmers-experience-of-climate-change-doesnt-alter-politics-study-says/2019/11/14/>

Nash, Stephen (2019). Nash: Climate change, Lynchburg's heat and silence. *The News & Advance*. Available at: https://www.newsadvance.com/opinion/columnists/nash-climate-change-lynchburgs-heat-and-silence/article_79e89cfe-a1c7-5b34-80f7-b2ae1561f739.html

Smalstig, Madi (2019). Resilience institute welcomes experts. *Indiana Daily Student*. Available at: https://issuu.com/idsnews/docs/binder1_bcaf79e93e2062

Coverage of Research (No interview)

2020

Bowman, Sarah & London Gibson (Oct. 5th, 2020). Environmental issues loom large in 2020 election. Here's what they could mean for Indiana. *Indy Star*. Available at: <https://www.indystar.com/story/news/environment/2020/10/05/election-2020-what-environmental-issues-could-mean-indiana/3536464001/>

Sawatsky-Kingsley, Aaron. (Sept. 4th, 2020). Residents asked to examine resilience index, opinion map. *Goshen News*. Available at: https://www.goshennews.com/news/aaron-sawatsky-kingsley-residents-asked-to-examine-resilience-index-opinion-map/article_f1259eca-eeee-11ea-9161-8319fd687412.html

Reschke, Michael (2020). IU survey: Most Hoosiers weren't worried about outbreak before COVID-19. *The Herald Times*. Available at:

https://www.hoosiertimes.com/herald_times_online/news/covid19/iu-survey-most-hoosiers-werent-worried-about-outbreak-before-covid-19/article_2af99dd0-84c5-11ea-8a22-e7c56afe0424.html

Miley, Scott (2020). Survey: Before COVID-19, Hoosier underestimated pandemic and climate change. *Herald Bulletin*. Available at:

https://www.heraldbulletin.com/news/coronavirus/survey-before-covid-19-hoosiers-underestimated-pandemic-and-climate-change/article_9c1e15f2-8639-11ea-9ffb-db463ea41d7f.html

2019

Beals, Rachel (2019). Mike Pence's home state is worried about climate change, and Joe Biden's natural-gas ties. *Market Watch*. Available at:

<https://www.marketwatch.com/story/mike-pences-home-state-is-worried-about-climate-change-and-joe-bidens-natural-gas-ties-2019-09-05>

Hines, Jonathan (2019). Hoosier Life Survey to gauge values, environmental attitudes throughout the state. *Environmental Resilience Institute News*, August 6. Available at: <https://eri.iu.edu/news/hoosier-life-survey.html>

Meet the Research Fellows Helping IU Prepare for Environmental Change, *IU Vice President for Research*. April 19. Available at:

<https://www.youtube.com/watch?v=RNtUKIGwpQ>

IU's Environmental Resilience Institute fellows are combating climate change, *News at Indiana University Bloomington, Science and Technology*, April 17.

2018

Bellamy, A. S. (2018). Profit and hegemony in agribusiness. *Nature Plants*, 4(11), 867. Available at: <https://www.nature.com/articles/s41477-018-0296-5>

Research that benefits Indiana, the nation and the world, and an important historical remembrance. *Indiana University President's Update*, November 14th. Available at: <https://president.iu.edu/news/monthly-update/2018/november.html>

Suarez, Cyndi (2018). How to craft a narrative for social change: A Climate Example. *Non-Profit Quarterly, Climate Change and Environment*. Available at: <https://nonprofitquarterly.org/how-to-craft-a-narrative-for-social-change-a-climate-example/>

IU environmental fellows seek to improve farms' resiliency, use art to further habitat preservation. *News at Indiana University Bloomington, Science and Technology*,

September 24. Available at: <https://news.iu.edu/stories/2018/09/iub/24-iu-names-environmental-resilience-institute-fellows.html#>

SELECTED ACADEMIC PRESENTATIONS (underline denotes undergraduate)

Invited

Farmers' Nitrogen Management: Identifying Conservation Barriers and Opportunities.

2025 University of Delaware, Department of Applied Economics and Statistics, Newark DE. Oct 1st, 2025

How to change farmers' behavior: Improving on-farm N management

2024 Global Nitrogen Innovation Center for Clean Energy and the Environment, National Science Foundation Global Centers Program, Baltimore, MD, June 14th

Nutrient Management Yield Warranty Pilot

2024 North American Agriculture Conference, The Nature Conservancy, San Antonia TX, March 16th.

Chesapeake Bay Agriculture: Using Social Science to Advance Conservation Engagement

2023 Michigan State University Sustainable Agriculture and Food Systems Visiting Scholars Program, Michigan State University. April 21st.

Sustainable Agriculture Graduate Students' Fall 2022-Spring 2023 Colloquium Series, Iowa State University. March 22nd.

2022 Distinguished Speaker Seminar Series, University of Maryland Center for Environmental Science, Chesapeake Bay Laboratory. November 16th.

Invited Seminar Speaker, University of Maryland Center for Environmental Science, Appalachian Laboratory. December 9th.

Does adopting a nitrogen best management practice reduce nitrogen fertilizer rates?

2022 The Nature Conservancy Food Systems Science Lab Meeting, May

Integrating social and biophysical sciences: Insights from farmer research

2022 Chesapeake Bay Scientific and Technical Advisor Committee Quarterly Meeting, April

Advancing Farmers' Capacity to Prepare for and Address Climate Change

2022 *Invited Board Member Presentation*, Harry R Hughes Center for Agro-Ecology, University of Maryland, January

What's driving our response to climate change?

2021 *Invited Seminar Speaker*, University of Maryland Center for Environmental Sciences, Horn Point Laboratory, October

How are midwestern farmers experiencing climate change?
2019 *Keynote address*, Association of School of Public and Environmental Affairs Ph.D. Students Annual Conference, Indiana University, February

Conference

Fife, Anikka.* & **Houser, Matthew**. Exploring On-Farm Green Ammonia Production: Farmers' Views on An Innovative Fertilizer Technology.
2025 Soil and Water Conservation Society Meeting, Los Angeles California, August 5th, 2025

Houser, Matthew. Farmers' Participation in Incentivized Conservation Programs: Identifying Barriers and Opportunities for Innovative Designs.

2022 American Society of Agronomy, Crop Science Society of America, Soil Science Society of America meeting, Baltimore, November

Houser, Matthew, Amy Jacobs, Lindsay Thompson. Advancing Farmers' Capacity to Prepare For and Address Climate Change.

2022 Adapting to a Changing Climate in Delmarva (NOAA), *July*

Seest, Victoria and **Matthew Houser**. Drought tolerant seed use in the Eastern Corn Belt: Using seed dealer interviews to understand the lack of adoption.

2021 Rural Sociological Society, Virtual, July

2021 Ecological Society of America Annual Meeting

Burhans, Molly and **Matthew Houser**. The Rural-Urban Divide across Hoosier climate change attitudes.

2021 Indiana University Rural Conference, Virtual, May

2021 Ecological Society of America Annual Meeting

Houser, Matthew and Diana Stuart. An accelerating treadmill and overlooked contradiction in industrial agriculture: Climate change and nitrogen fertilizer.

2019 Ecological Society of America Annual Meeting, Louisville, KY, August

Houser, Matthew. Is the adoption of nitrogen best management practices associated with less nitrogen fertilizer use?

2019 Rural Sociological Society Annual Meeting. Richmond, VA, August

Houser, Matthew. Beyond "climate change": Insights toward farmers' development of pro-climate attitudes.

2017 Michigan State University Sociology Department Speaker Series. East Lansing, December

Houser, Matthew, Diana Stuart, and Michael Carolan. Is seeing believing? Applying a realist framework to examine agriculture and climate change.

2017 Rural Sociological Society Annual Meeting. Columbus, July

2017 Michigan State University Sociology Department Environmental Graduate Student Showcase, East Lansing, April

Houser, Matthew. Who framed climate change? Identifying the how and why of Iowa corn farmers' framing of climate change.

2016 American Sociological Association Annual Meeting. Seattle, August

2015 Environmental Science and Policy Program Research Symposium. East Lansing, October

Houser, Matthew. Agriculture, resilience, and greenhouse gas emissions: exploring the persistence of corn farmers' inefficient nitrogen fertilizer use.

2016 International Association of Society and Natural Resources. Houghton, June

Houser, Matthew. Social attractors in agro-ecological systems: an enhanced perspective on the resilience of nitrogen fertilizer pollution.

2015 American Sociological Association Annual Meeting. Chicago, August

Houser, Matthew. Local food, universal values: assessing local food purchasing using Value Beliefs Norms Theory.

2014 The Rural Sociological Society Conference. New Orleans, August

SERVICE ACTIVITIES

Professional

Reviewer, Elementa: Science of the Anthropocene
Agriculture, Ecosystems & Environment
Agriculture and Environmental Letters
Global Environmental Change
Society and Natural Resources
Land Use Policy
Agriculture & Environmental Letters
Agricultural Systems
Agriculture and Human Values
Environment and Behavior
Land Degradation and Development
Renewable Agriculture and Food Systems
Journal of Environmental Management
Journal of Soil and Water Conservation
Journal of Rural Studies
Environmental Sociology
International Journal of Sociology
PeerJ
Sociological Perspectives

Science Advances
Nature Food

2023-

Associate Editor, Journal of Soil and Water Conservation.

Social Science Subject Matter Expert Panel Member, Journal of Environmental Quality

Review Editor, Frontiers in Sustainable Food Systems

2022-2024

Invited Expert Reviewer, Conservation Innovation Grants: Trialing Dietary Interventions to Mitigate Enteric Methane Emissions in Dairy Cattle.

2021-2022

Working Group Member, Pesticide Program Dialogue Committee (PPDC), Office of Pesticide Programs, Environmental Protection Agency (EPA).

2019

Invited Contributor/Reviewer, Local Foods Marketing Practices (LFMP) Survey, United States Department of Agriculture (USDA)

Invited Consultant, The Pasture Project, Wallace Center at Winrock International.

Institutional

University of Maryland Center for Environmental Sciences

2024-

Postdoc Mentoring Committee, UMCES Horn Point Lab

2023-2024

Committee Member, UMCES Appalachian Laboratory Hiring Committee (2-3 faculty positions)

Invited Panelist, UMCES Collaboratory Development Meeting (Chesapeake Biological Laboratory, June 11th)

Indiana University

2020-2021

Steering Committee Member, Prepared for Environmental Change/Environmental Resilience

2020

Task force member, Prepared for Environmental Change/Environmental Resilience Institute Fellows Task Forces

2019

Committee member, Prepared for Environmental Change/Environmental Resilience Institute strategic planning session

Invited Presenter (on behalf of the Fellows), Indiana University Grand Challenge, initiative, Prepared for Environmental Change External Review Presentation: “The Fellows Program.”

Peer-Elected Annual Review Evaluator, Indiana University Grand Challenge, initiative, Prepared for Environmental Change Fellows 2019 Annual Evaluation Review Committee

Technical Reviewer, Indiana University Grand Challenge initiative, Prepared for Environmental Change Project Proposals

2018-2019

Founding Member, Environmental Resilience Institute Speaker Series Committee
Speakers recruited during tenure:

1. G. Philip Robertson, University Distinguished Professor, Department of Plant, Soil and Microbial Sciences, Michigan State University
2. Ryan Gunderson, Assistant Professor, Department of Sociology and Gerontology, Miami University

Michigan State University

2018

Speaker, LAUNCH, Professional Development Series, Department of Sociology, Michigan State University

2016

Co-Creator/Co-Leader, The New Cohort Orientation Workshop, Department of Sociology, August 20-22

2015-2016

Member, Department of Sociology Graduate Education Committee

2013-2014

Member, Department of Sociology Advisory Committee