

## **KURT B. WALDMAN**

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### **RESEARCH INTERESTS**

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My research applies behavioral economics and decision science to understand socio-environmental problems. Areas of interest include perceptions, judgment and decision making related to food systems, environmental change, and agricultural sustainability.

### **ACADEMIC APPOINTMENTS**

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Assistant Professor, Department of Geography, Indiana University, Fall 2018- present.

Affiliated Faculty, Cognitive Science Program, Indiana University, Fall 2019- present.

Affiliated Faculty, Ostrom Workshop, Indiana University, Fall 2018- present.

Visitor, Kahneman-Treisman Center for Behavioral Science and Public Policy, Princeton University, Fall 2017- Spring 2018.

Postdoctoral Fellow, Ostrom Workshop, Indiana University, Fall 2015- Spring 2018.

### **EDUCATION**

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Ph.D. Food and Agricultural Policy, Michigan State University, 2014

*Department:* Sustainability; *Dissertation:* Understanding how people evaluate tradeoffs related to food and the environment; *Chair:* John Kerr

M.S. Applied Economics and Management, Cornell University, 2009

*Thesis:* Ex-ante impact evaluation of livestock interventions in crop-livestock systems in Northern Afghanistan; *Chair:* Chris Barrett

B.A. History, Earlham College, 2000

### **ASSOCIATION MEMBERSHIPS**

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Member of American Association of Geographers, 2015-present

Association for Environmental Studies and Sciences, 2016-2017

Applied and Agricultural Economics Association, 2009-2015

## RESEARCH

### PEER REVIEWED PUBLICATIONS

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Giroux, S., Blekking, J., **Waldman, K.B.**, Resnick, D., & Fobi, D. (2020). Informal vendors and food systems planning in an emerging African city. *Food Policy*, 101997. <https://doi.org/10.1016/j.foodpol.2020.101997>

**Waldman, K. B.**, Todd, P. M., Omar, S., Blekking, J. P., Giroux, S. A., Attari, S. Z., Baylis, K., & Evans, T. P. (2020). Agricultural decision making and climate uncertainty in developing countries. *Environmental Research Letters*, 15(11), 113004. <https://doi.org/10.1088/1748-9326/abb909>

Brough, A. Donnelly, G., Markowitz, E., Griskevicius, V., Raimi, K., Reeck, C., Trudel, R., **Waldman, K.**, Winterich, K., Wolske, K. (2020). Understanding How Sustainable Initiatives Fail: A Framework to Aid Design of Effective Interventions. *Social Marketing Quarterly*. <https://doi.org/10.1177/1524500420970129>

Blekking, J., **Waldman, K. B.**, Lopus, S., & Giroux, S. (2020). Migration and urban food accessibility in Mumbwa, a tertiary city of Zambia. *Migration and Development*, 0(0), 1–17. <https://doi.org/10.1080/21632324.2020.1837533>

Guido Z., Zimmer, A., Lopus, S., Hannah, C., Gower, D., **Waldman, K.B.**, Krell, N., Sheffield, J., Caylor, K., and Evans, T.P. (2020). Farmer Forecasts: Impacts of Seasonal Rainfall Expectations on Agricultural Decision-Making in Sub-Saharan Africa. *Climate Risk Management*. <https://www.sciencedirect.com/science/article/pii/S2212096320300371?via%3Dihub>

Schmitt-Harsh, M., **Waldman, K.B.**, Estes, L., Evans, T. (2020). Understanding social and environmental determinants of piecework labor in smallholder agricultural systems. *Applied Geography*, 121, 102243. <https://doi.org/10.1016/j.apgeog.2020.102243>

Blekking J. \*, **Waldman, K.B.**, & Evans, T. (2020). Hybrid maize certification and smallholder adoption in Zambia. *Journal of Environmental Planning and Management*. (Published online July 13, 2020).

**Waldman, K.B.**, Giroux, S., Blekking, J.P., Baylis, K., Evans, T.P. (2020). Smallholder food storage dynamics and resilience. *Food Security* 12, 7–20. <https://doi.org/10.1007/s12571-019-00983-2>

Blekking, J. \*, **Waldman, K.**, Tuholske, C., & Evans, T. (2020). Formal/informal employment and urban food security in Sub-Saharan Africa. *Applied Geography*, 114, 102131. <https://doi.org/10.1016/j.apgeog.2019.102131>

**Waldman, K.B.**, Attari, S.Z., Gower, D.B., Giroux, S.A., Caylor, K.K., Evans, T.P., (2019). The salience of climate change in farmer decision-making within smallholder semi-arid agroecosystems. *Climatic Change* 156, 527–543. <https://doi.org/10.1007/s10584-019-02498-3>

**Waldman, K.B.**, Vergopolan, N., Estes, L.D., Attari, S.Z, Sheffield, J., Caylor, K.K., and Evans,

T.P. (2019). Cognitive biases about climate variability in smallholder farming systems in Zambia. *Weather, Climate and Society*, 11, 369-383. <https://doi.org/10.1175/WCAS-D-18-0050.1>

Giroux, S.A., Kouper, I., Estes, L. D., Schumacher, J., **Waldman, K.B.**, Greenshields, J. T., ... Evans, T. P. (2019). A high-frequency mobile phone data collection approach for research in social-environmental systems: Applications in climate variability and food security in sub-Saharan Africa. *Environmental Modelling & Software*, 119, 57–69. <https://doi.org/10.1016/j.envsoft.2019.05.011>

Grabowski, P., Schmitt Olabisi, L., Adebisi, J., **Waldman, K.B.**, Richardson, R., Rusinamhodzi, L., and Snapp, S. (2019). Assessing adoption potential in a risky environment: The case of perennial pigeonpea. *Agricultural Systems*, 171, 89–99. <https://doi.org/10.1016/j.agsy.2019.01.001>

**Waldman, K. B.** and Richardson, R.B. (2018). Confronting tradeoffs between agricultural ecosystem services and adaptation to climate change in Mali. *Ecological Economics* 150, 184-193.

McCord, P.M., **Waldman, K.B.**, Baldwin, E., Dell'Angelo, J., and Evans, T.P. (2018). Assessing multi-level drivers of adaptation to climate variability and water insecurity in smallholder irrigation systems. *World Development*, 108, 296-308.

**Waldman, K. B.** and Kerr, J. M. (2018). The effect of safety information on consumer willingness to pay for pasteurized cheese. *Food Quality and Preference*, 64, 56-65.

**Waldman, K.B.**, Blekking, J.P., Attari, S.Z., Evans, T.P. (2017). Perceptions of climate variability and seed choice among smallholder farmers. *Global Environmental Change*, 47, 51-63.

**Waldman, K. B.**, Ortega, D. L., Richardson, R.B., and Snapp, S.S. (2017). Estimating demand for perennial pigeon pea in Malawi using choice experiments. *Ecological Economics*, 131, 222–230.

Ortega, D. L., **Waldman, K. B.**, Richardson, R. B and Snapp, S. S. (2016). Sustainable intensification and farmer preferences for crop system attributes: Evidence from Malawi's Central and Southern Regions. *World Development*, 87, 139-151.

**Waldman, K. B.**, Ortega, D. L., Richardson, R.B., Clay, D.C., and Snapp, S.S. (2016). Preferences for legume attributes in maize-legume cropping systems in Malawi. *Food Security*, 8(6), 1087–1099.

Isaacs, K. B., Snapp, S. S., Chung, K. and **Waldman, K. B.** (2016). The value of integrating farmer and researcher knowledge: Developing resilient bean and maize cropping systems in Rwanda. *Food Security*, 8, 491-506.

**Waldman, K. B.** and Kerr, J. M. (2015). Is Food and Drug Administration policy governing artisan cheese consistent with consumers' preferences? *Food Policy*, 55, 71-80.

**Waldman, K. B.**, Kerr, J. M. and Isaacs, K. B. (2014). Combining participatory crop trials and experimental auctions to estimate farmer preferences for improved common bean in Rwanda, *Food Policy*, 46, 183 - 192.

**Waldman, K. B.** and Kerr, J. M. (2014). Limitations of certification and supply chain standards for environmental protection in commodity crop production. *Annual Review of Resource Economics*, 6(1).

**Waldman, K. B.**, Conner, D. S., Biernbaum, J. A., Hamm, M. W. and Montri, A. D. (2012). Determinants of hoophouse profitability. *HortTechnology*, 22(2), 215 - 223.

Conner, D. S., Montri, A. D., **Waldman, K. B.**, Hamm, M. W. and Biernbaum, J. A. (2011). Hoophouse contributions to farm profitability and food system sustainability: Lessons from Michigan. *Journal of Extension*, Vol. 49(1).

Conner, D. S., **Waldman, K. B.**, Montri, A. D., Hamm, M. W. and Biernbaum, J. A. (2010). Hoophouse contributions to economic viability. *HortTechnology*, 20(5), 877- 884.

## ARTICLES UNDER REVIEW

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**Waldman, K.B.**, Guido, Z., Carrico, A., Attari, S.Z., Evans, T.P. and Todd, P.M. Reorienting climate decision making to developing countries. (Under review at *Current Opinion in Environmental Sustainability*).

Giroux, S., **Waldman, K.B.**, Blekking, J.P., Kaminski, P., Blekking J.P., Evans, T., and Caylor, K. Smallholder advice seeking and adaptation within the context of common pool resource management. (under review *Climate Risk Management*).

Guido Z., Lopus, S., **Waldman, K.B.**, Hannah, C., Gower, D., Caylor, K., and Evans, T.P. Smallholder Farmers' observations of climate change limit their use of weather forecasts (submitted to *Sustainability Science*).

**Waldman, K.B.**, Giroux, S.A., Farmer, J.R., Heaberlin, B., Blekking, J.P., and Todd, P.M. Stress and farm exit during uncertain times (under review at *Rural Studies*).

Richardson, R., Schmitt Olabisi, L.; **Waldman, K.B.**, Sakana, N., Brugnone, N. Modeling the Impact of Sustainable Intensification on Landscapes and Livelihoods. (submitted to *Agricultural Systems*).

Blekking, J., Gatti, N., Waldman, K., Baylis, K., and Evans, T. Who Gains from Agricultural Cooperatives: Evidence from Zambia. (Submitted to *World Development*).

## PAPERS IN PROGRESS

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Lopus, S., **Waldman, K.B.**, Guido, Z., Caylor, K., and Evans, T.P. Dual threats to African Farming.

Evans, T.P., McCord, P.M., Krell, N., **Waldman, K.B.**, Giroux, S.A., Caylor, K.K., Estes, L.D.,

and Sweeny S. Social-environmental data disconnects and gaps in coupled natural-human systems science.

## BOOK CHAPTERS AND CASE STUDIES

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Richardson, R. B., Schmitt Olabisi, L.K., **Waldman, K. B.**, and Sakana, N. (2016). Using participatory system dynamics modeling of agricultural-environmental systems in a developing country context. In: *Innovations in Collaborative Modeling*, M. McNall, ed. In Press, Michigan State University Press.

**Waldman, K.B.**, (2016). Hybrid Maize Production and Climate Variability in Zambia, Case Study Collection, National Socio Environmental Synthesis Center. Annapolis, MD.

## GRANTS

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Knudsen, D., Babb, A., Valiant, J., **Waldman, K.**, Giroux, S. Complex Food Provisioning Strategies and Food Insecurity among Low-Income Older Americans. Center for Rural Engagement, Indiana University (\$249,891).

Farmer, J.(PI), Knudsen, D., Todd, P., Brodzio, E., Osterhoudt, S., **Waldman, K.**, Giroux, S., Robinson, J., Bruce, A. Indiana University, Office of the Vice Provost for Research, Emerging Area of Research, “Sustainable Food System Science”, July 2018-June 2022 (\$2,838,000).

**Waldman, K.**, United States Department of Agriculture, National Institute of Food and Agriculture, Pre-doctoral Fellowship, 2012-4 (\$75,000)

**Waldman, K.** National Science Foundation, Decision Risk and Management Sciences, Doctoral Dissertation Improvement Grant, 2011-2 (\$7,000)

**Waldman, K.**, Kerr, J. Michigan Department of Agriculture, Social Science Research Grant, “Institutional Support for Artisanal Cheese Production in Michigan,” 2009-10 (\$50,000)

**Waldman, K.**, Mario Einaudi Center for International Studies, International Research Travel Grant, 2008 (\$2,000)

**Waldman, K.**, Cornell Institute for International Food and Agriculture Development, Research Grant, Cornell University, 2008 (\$8,000)

## INVITED PRESENTATIONS

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Farmers and the uncertainty of tariffs and extreme weather. O’Neil School of Public and Environmental Affairs, Indiana University. Environmental Policy Seminar. January, 2020.

Sustainable food consumption. 11<sup>th</sup> Triennial Invitational Choice Symposium. Hosted by Georgetown University. Cambridge, MD. June, 2019.

Using behavioral experiments to understand tradeoffs related to food safety, University of Vermont, Department of Nutrition and Food Sciences, February 2018.

Perceptions and biases related to climate variability among smallholder farmers, The Ohio State University, School of Environment and Natural Resources, January 2018.

Using experimental auctions to understand how consumers and producers evaluate tradeoffs related to food and agriculture, Gund Institute for Ecological Economics, University of Vermont, Burlington, VT., April 2014.

## **CONFERENCE PRESENTATIONS**

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Food storage dynamics and resilience, American Association of Geographers Annual Meeting, New Orleans, April 2018.

Perceptions of multi-level governance of small-scale irrigation systems on the slopes of Mt. Kenya. Resilience Conference, Stockholm, Sweden, August 2017.

Matching perceptions of climate change with historical hydroclimate data in Zambia. Midwestern Conference on Cognitive Science, Oxford, OH., July 2017.

Matching perceptions of climate change with historical hydroclimate data in Zambia. Association for Environmental Studies and Sciences Annual Conference, Tucson, AZ., June 2017.

Perceptions of rainfall variability among smallholder farmers. American Association of Geographers Annual Meeting, Boston, MA., April 2017.

The impact of farmers' perceptions of rainfall uncertainty on hybrid maize seed choice, American Association of Geographers Annual Meeting, San Francisco, April 2016.

Farmers' perceptions of climate events on seed choice, Ostrom Workshop Research Series, Indiana University, April 2016.

Consumers' decisions about tradeoffs between food safety and sensory quality. Applied and Agricultural Economics Association Annual Meeting, Minneapolis, Minnesota, July 2014.

Combining participatory crop trials and experimental auctions. Symposium on Economic Experiments in Developing Countries, Norwegian School of Economics, Bergen, Norway, December 2013.

Combining participatory agronomic trials and experimental auctions to estimate farmers' preferences for improved beans in Rwanda." Workshop in Sustainable Development, Columbia University, New York, NY., April 2012.

## **AWARDS**

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Axinn International Development Scholarship, Michigan State University, 2013  
Research Enhancement Award, Michigan State University, 2010  
Barlowe Scholarship in Institutional Economics, Michigan State University, 2010

## TEACHING

### COURSES TAUGHT

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GEOG 208 Environment and Society, Indiana University, Fall 2018, Spring 2019 (~60 students).  
GEOG 343 Environmental Decisions, Indiana University, Fall 2020 (~32 students).  
GEOG 478/578 Global Change, Food and Farming Systems, Indiana University, Fall 2018, Spring 2019 (~36 students).

### STUDENT SUPERVISION

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#### Chair

Jordan Blekking (PhD Student), 2017 to present  
Daniel Fobi (MS/PhD Student), 2018 to present

#### Committee member

Jen Watkins (MS/PhD, committee member) 2018-present  
Bradi Heaberlin (MS/PhD, committee member) 2019-present

#### Undergraduate supervision

Gloria Masih (Undergraduate Sustainability Scholar 2020), 2018-2019  
Sydney Tyron (Undergraduate INTL-Capstone), Spring 2019  
Catherin Xu (Undergraduate Honors Thesis), Spring 2018  
Isabella De Marco (Undergraduate Sustainability Scholar 2021), 2020-2021

## SERVICE

### PROFESSIONAL SERVICE

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#### Referee

Funding agencies:

NSF Geography and Spatial Sciences (2)  
Indiana University, Environmental Resilience Institute (1)

Journals:

*Climatic Change* (2)

*Ecological Economics (2)*  
*Environmental and Resource Economics (1)*  
*Food Policy (2)*  
*Food Security (3)*  
*Frontiers in Sustainability (1)*  
*Global Environmental Change (1)*  
*International Food Policy Research Institute (1)*  
*International Journal of the Commons (1)*  
*Land Use Policy (2)*  
*Nature Scientific Data (1)*  
*Plos One (1)*  
*Science of the Total Environment (2)*  
*Weather Climate and Society (1)*  
*World Development (2)*

**Professional Organizations**

Vice president, Environmental Perceptions and Behavioral Geography (EPBG) specialty group of the AAG (2019- present)

**DEPARTMENT AND CAMPUS SERVICE**

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Department of Geography, Colloquium Co-chair (Fall 2020)  
Salary Committee (2020)  
Sustainable Food Systems Science Hiring Committee (2019)