

Tobias Lunt

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Areas of specialization

Agricultural development • Food security • Climate change • Research for development

Education

- 2015 MSc joint in Agroecology and Plant Pathology, University of Wisconsin-Madison. GPA: 4.0/4.0;
GRE: 170/170 Quantitative (97p), 169/170 Verbal (97p), 5.5/6.0 Writing (98p)
- 2008 BA in Environmental Studies, Economics Minor, Dartmouth College. SAT: 1580/1600

Appointments

- 2015-Present *Research Specialist, [Jahn Research Group](#), UW-Madison*
Investigated risk relationships between food security, food systems, and geopolitical stability. Managed R&D agreement with director-level stakeholders in the intelligence community, NT-50 agencies of US Government, and the humanitarian sector. Led project for Lloyds of London revalu-ing how insurance and financial stakeholders relate to food system risks.
- 2016-Present *Co-founder, [Seedwater Collective](#)*
Co-lead a small human rights-focused NGO working on the development, monitoring, and protec-tion of water resources in Zambia (including prototyping open-hardware groundwater sensors), trash and recycling microenterprise in Kenya, and supporting youth empowerment community leaders in Ethiopia.
- 2016-2016 *Fulbright Scholar, agriculture, to Ethiopia*
Fulbrighter to Ethiopia working with the International Potato Center (CIP), FAO, and Addis Ababa University to assess opportunities and constraints in key Ethiopian crop value chains, as well as the perception and prioritization of livelihoods and NRM approaches in rural communities. De-signed and implemented survey instruments, analyzed primary and secondary data, and drafted manuscripts for publication.
- 2015-2016 *Research Intern, ACDI/VOCA, Lusaka Zambia*
Researcher for PROFIT+, a \$20M+ USAID-flagship Feed The Future agricultural markets develop-ment project in Zambia. Designed, conducted, and drafted analytical report on climate risk analysis in crop value chains in Eastern and Lusaka provinces. Performed stakeholder interviews, historical climate data analysis, trade and policy analyses, and literature review. Provided key insight into project-related climate resilience and project performance.

2012-2015	<i>Graduate Researcher</i> , MSc Agroecology and Plant Pathology, UW-Madison Research assistant on nematode-fungal synergy and agroecology on Maize in MacGuidwin Laboratory while pursuing a joint MS in Agroecology and Plant Pathology.
2011-2012	<i>Line Cook</i> , L'Etoile Restaurant Responsible for preparing and cooking all aspects of entrees on the most challenging workstation of a fine-dining restaurant. The restaurant team earned a coveted James Beard Award during this period. Ascended from a part-time prep cook to highest ranking full-time entree line cook in nine months.
2011-2011	<i>Farmhand</i> , Blue Moon Community Farm Assisted in all aspects of certified organic vegetable farm during the 2011 growing season. Worked with hoophouse vegetable production, field crops, marketing, farm planning, and raising heritage pork and poultry.

Grants, honors & awards

2017	Baldwin Wisconsin Idea grant, "Sustainable groundwater sensor network, Zambia and beyond", PI
2015-2016	Fulbright Scholar in Agriculture to Ethiopia
2015-2016	Honorary Fellow – UW Madison Center for Sustainability and the Global Environment (SAGE)
2014	Phi Kappa Phi honor society Zillman research award
2014	Phi Kappa Phi honor society "Love of Learning" award
2014	UW-Madison Plant Pathology departmental travel award
2014	UW Agroecology professional award
2012	O.N. Allen Graduate Scholarship

Publications & talks

JOURNAL ARTICLES

2016	Tobias Lunt , Aled W. Jones, William S. Mulhern, David P.M. Lezaks, Molly M. Jahn (2016). "Vulnerabilities to agricultural production shocks: An extreme, plausible scenario for assessment of risk for the insurance sector." <i>Climate Risk Management</i> , 13, 1-9.
2016	Heidi A Busse, Mariama Fofanah, Steffen Schulz, Tobias Lunt , Girma Tefera (2016). "Wealth matters: Prevalence and predictive indicators of food insecurity in the Sidama and Wolayta zones of Southern Ethiopia." <i>Journal of Hunger and Environmental Nutrition</i> , 11:1, 45-58.

IN PROCESS

2017	Tobias Lunt , Jim Ellis-Jones, Kindu Mekonnen, Steffen Schulz, Peter Thorne, Elmar Schulte-Geldermann and Kalpana Sharma. "Participatory Community Analysis: identifying and addressing challenges to Ethiopian smallholder livelihoods." <i>Submitted</i> .
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NEWSPAPER ARTICLES AND REPORTS

2016	Tobias Lunt (February 1, 2016), "Conservatives Want To Fix the Climate." <i>The Huffington Post</i>
2015	Lloyds of London (June 6, 2015), "Food System Shock: The Insurance Impacts of Acute Disruption

2015 to Global Food Supply.” *Lloyds of London Emerging Risk Report*
 Tobias Lunt and Molly Jahn (June 19, 2015). “The Climate Corner: The Need to Live Within Our Means”, *The Peninsula Pulse*

PRESENTATIONS

2014 “Wealth matters: An assessment of indicators that predict food insecurity in the Sidama and Wolayta zones of Southern Ethiopia.” *5th Annual CUGH: “Advancing Global Health in the Post-MDG Era.”* Washington, DC.

2014 “Linking Agriculture and Health: A cross-sectoral approach to measure and improve nutrition and food security in Southern Ethiopia.” *8th annual Future of Food and Nutrition conference.* Tufts University.

2014 “Prevalence and predictive indicators of food security in the Sidama and Wolayta zones of Ethiopia.” *10th Annual GHI Symposium: “One health: making the connections.”* Madison, WI.

2014 “Interaction studies of *Pratylenchus penetrans* and *Fusarium verticillioides* on corn seedlings.” *APS – CPS annual meeting.* Minneapolis, MN.

Student Leadership

Agricultural Innovation Prize, *President of Organizing Team.* Led development and deployment of new innovation contest - the largest of its kind - awarding \$240,000 in prize money.

UW Global Health Institute, *Graduate Student Researcher.* Conducted food security indicator analysis for collaborative, multi-center project in Ethiopia.

International Agriculture Colloquium, *President, Co-Founder.* Formed and led student group, uniting and strengthening international research across campus silos.

One Acre Fund, *Graduate Student Rep.* Led OAF outreach and recruiting efforts at UW-Madison.

Technical Skills

Experienced with R, Python, Stata, ~~LaTeX~~

Experienced with GIS software packages including QGIS, DIVA GIS, Panoply

Experienced with HTML, CSS, Jekyll, Bootstrap, Liquid, Git

Proficiency with Machine Learning classification and regression approaches

Languages: Intermediate French, beginner Spanish, Italian, and Amharic

Cultivating rigor and joy