max.mauerman@gmail.com

EDUCATION

COLUMBIA UNIVERSITY, School of International and Public Affairs

Master of Public Administration, Development Practice Specialization in Advanced Economic and Policy Analysis

OHIO STATE UNIVERSITY, College of Arts and Sciences

Bachelor of Arts, Economics and Political Science Magna Cum Laude with Research Distinction Thesis Title: "Spatial Mismatch: Understanding Differences in Income Mobility Between Cities"

RESEARCH INTERESTS

Economics of pastoralism and community conservation; participatory field research methods; the use of Bayesian methods in climate decision support; spatial econometrics and the use of remote sensing data in economic research.

RESEARCH AND TEACHING EXPERIENCE

INTERNATIONAL RESEARCH INSTITUTE FOR CLIMATE AND SOCIETY

Staff Associate II (Sep 2020 – Sep 2022), Staff Associate III (October 2022 – present) - present

- Led design of agricultural index insurance products for WFP, ICRC and other humanitarian partners in more than 6 countries
- Co-developed mobile tools for farmer crowdsourcing and participatory research
- Contributed to academic papers on behavioral economics, insurance design and basis risk estimation

COLUMBIA UNIVERSITY

Teaching Assistant - Microeconomic Analysis (Fall) and Global Food Systems (Spring) September 2019 – May 2020

- Taught 120 first year masters' students an intermediate microeconomics curriculum. Topics include general equilibrium theory, welfare analysis, market failures and application of microeconomic theory to policy issues. (Fall)
- Developed course materials and lesson plans for a first-year seminar course on the policy, economics and science of food systems. (Spring)

INNOVATIONS FOR POVERTY ACTION

Research and Policy Analyst

- Managed \$2m, multi-year impact evaluation of sustainable rangeland management project in northern Namibia for Millennium Challenge Corporation.
- Developed survey instruments for impact evaluation, led 10 months of data collection and trained over 100 local enumerators on survey protocol and software use.
- Conducted analysis of impact evaluation data with Prof. Dean Karlan, presented results to government and NGO stakeholders in Namibia and USA.
- Wrote over 25 thematic briefs and project summaries for a policymaker audience, developed grant applications and press pieces.

OHIO STATE UNIVERSITY DEPARTMENT OF ECONOMICS Research Assistant, Prof. Trevon Logan

INNOVATIONS FOR POVERTY ACTION Urban Sanitation Project Intern

December 2015

PUBLICATIONS

Lead Author

Mauerman, M., et al. (2022). An Information-Theoretic Approach to Reconciling Historical Climate Observations and Impacts on Agriculture. *Weather, Climate and Society, doi:10.1175/WCAS-D-22-0019.1* Mauerman, M., et. al. (2022) The Long-Term Impact of Multi-Season Droughts on Livestock Holdings and Pastoralist Decision-Making in Marsabit, Kenya. *Journal of Arid Environments. doi:10.1016/j.jaridenv.2022.104928* Mauerman, M., et al. (2022). High-quality historical flood data reconstruction using Hidden Markov models. *Proceedings of* 8th International Conference on Water and Flood Management, ISBN 978-3-030-95721-6

Co-Author

New Vork NV

New York, NY September 2020

New York, NY

Oshakati, Namibia and New York, NY

May 2016 – January 2019

Columbus, OH January 2016 – May 2016

Accra, Ghana September 2015 –

New York, NY May 2020

Columbus, OH May 2016 Hernandez-Aguilera, J., et. al. (2020). Framed Experiments and Games in Agriculture: A Systematic Review of the 21st
Century in Economics and Social Science. *Games, 11 (4). doi: 10.3390/g11040047*Diro, R, et. al.(2023). Financial Education and Games in Weather Index Insurance. Chapter in "Rethinking Education for
Sustainable Development", ed. Iyengar, R. & Caman, O. *Bloomsbury Press, ISBN 9781350256125*Giezendanner, J., Mukherjee, R., Purri, M., Thomas, M., Mauerman, M., Islam, A. K. M. S., & Tellman, B. (2023). Inferring
the Past: A Combined CNN-LSTM Deep Learning Framework To Fuse Satellites for Historical Inundation Mapping. *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition 2154–2164*.
Mauerman, M., Tjiseua, V., & Groves, D. W. (2023). Seeing Cattle like a State: Sedentist Assumptions of the Namibian
Livestock Identification and Traceability System. *Nomadic Peoples, 27(2), 171–197. https://doi.org/10.3197/np.2023.270202*

Other Contributions

Led fieldwork and contributed to study design and analysis:

Coppock, L., et. al. (2022). Community-based rangeland management in Namibia improves resource governance but not environmental and economic outcomes. *Nature Communications Earth & Environment, 3 (1). doi:* 10.1038/s43247-022-00361-5

CONFERENCE PRESENTATIONS

Oral Presentations

Mauerman, M., Groves, D., Tjiseua, V. (2022, April). *The Political Economy of Rangeland Degradation and Conservation: Evidence from Namibia*. Midwest Political Science Association, Chicago, IL.
Mauerman, M., Tellman, B. (2021, June). *Climate Insurance: (Mal)adaptation, delaying inevitable retreat or migration, or building resilience?* Columbia University Managed Retreat Conference, New York, NY.
Mauerman, M., et. al. (2021, March). *High-quality historical flood data reconstruction using Hidden Markov models.* International Conference for Water and Flood Management, Dhaka, Bangladesh.

Poster Presentations

Mauerman, M. (2016, March). Spatial Mismatch: Understanding Differences in Income Mobility Between Cities. International Association of Political Science Students, Berlin, Germany. Mauerman, M. (2015, Feb). Spatial Mismatch: Understanding Differences in Income Mobility Between Cities. Harvard National Collegiate Research Conference, Cambridge, MA.

HONORS AND AWARDS

 Columbia University Mabel V.P. Forsyth Scholarship 1st Prize, Columbia University SIPA Consulting Club Case Competition Humanity in Action Fellowship First ever recipient from Ohio State University 3rd Prize in Government, Policy and Law, Harvard National Collegiate Research Conference 	2018 – 2020 2018 2015
 2015 2nd Prize, William Jennings Bryan Award, Ohio State University Awarded to best undergraduate papers in comparative politics and political theory 	2015
• 2 nd prize in Social Sciences at OSU's Denman Research Forum	2014
Ohio State University Gledhill Prize for Applied Economics	2014
• Awarded to top 2 undergraduate theses in applied economics each year	

OTHER RELEVANT PROFESSIONAL EXPERIENCE

 TETRA TECH ARD Consultant Developed flexible climate risk analysis platform in Google Earth Engine for Tetra Tech A Conducted impact analysis of climate risk management programs using household survey of the second survey of	
 WORLD FOOD PROGRAMME Intern (2019), Consultant (2020), Asset Creation and Livelihoods Unit Authored report on the impacts of WFP's resilience-building programs, synthesizing findin Conducted a global cost-efficiency assessment of WFP asset creation activities using statis Co-designed 3 country-level impact evaluations of resilience-building programs in collaboration 	tical analysis in R

New York, NY

January 2020 - May 2020

BCG PLATINION

SIPA Capstone Workshop Consultancy

• Served on a team of graduate student consultants to develop an analysis of commodity market risk from climate change.

• Created a quantitative scenario analysis tool (using forecast data and ecological niche modeling) for cocoa production risk.

• Delivered a white paper and presentation on findings to a Fortune 500 client.

UNIVERSITY SERVICE & PROFESSIONAL MEMBERSHIPS

•	President of SIPA Monitoring and Evaluation Student Society	2019 - 2020
٠	Civic Hall Labs Delta.NYC Project Manager	2018
•	Youth Writer, United Nations Department of Public Information	2014

LANGUAGES & TECHNICAL SKILLS

Languages: Fluent in English, working knowledge of Spanish Software: R, STATA, ArcGIS, QGIS, Google Earth Engine, Python, SurveyCTO / ODK , NVivo, MaxQDA

REFERENCES

Daniel Osgood, Research Scientist International Research Institute for Climate and Society, Columbia University <u>deo@iri.columbia.edu</u>

Glenn Denning, Professor of Professional Practice in International and Public Affairs; Director, Master of Public Administration in Development Practice (MPA-DP) School of International and Public Affairs, Columbia University <u>gd2147@columbia.edu</u>

Dean Karlan, Professor of Economics and Finance; Co-Director, Global Poverty Research Lab; President and Founder, Innovations for Poverty Actions Kellogg School of Management, Northwestern University karlan@northwestern.edu

Sara Watson, Associate Professor Department of Political Science, Ohio State University watson.584@osu.edu