

Taylor Zachary Lange PhD

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Sustainability Science | Cultural Evolution | Resource Economics

Education	2016-2022	PhD	University of Maine, Ecology & Environmental Sciences
	2016-2020	M.Sc.	University of Maine, Resource Economics & Policy
	2013-2015	M.A.	Binghamton University, Geography
	2009-2013	B.A.	Binghamton University, Environmental Studies
Professional Positions	2024 - Present		Research Associate Margaret Chase Smith Policy Center
	2023 - 2024		University of Maine Post-Doctoral Research Fellow Environmental Protection Agency
	2024 - 2024		Oak Ridge Institute for Science & Education Adjunct Lecturer
	2020 - 2023		Department of Geography The George Washington University
	2021 - 2022		Data Science & Economic Consultant Self Employed
	2019 - 2021		Ecological Economist Center for the Advancement of the Steady State Economy
	2016 - 2021		Teaching Assistant School of Economics, University of Maine Ph.D. Research Assistant School of Economics, University of Maine

Peer Reviewed Publications

Lange, Taylor Z., and Timothy M. Waring. 2025. "Observational Evidence That Economic Reciprocity Pervades Self Organized Food Co Operatives." *Evolutionary Human Sciences* 7:1-27. <https://doi.org/10.1017/ehs.2025.8>.

Waring, T.M., **Lange, T.Z.**, Chakraborty, S. (2022) Institutional adaptation in the evolution of the 'co-operative principles.' *Journal of Evolutionary Economics*, 32 (1): 333-365.
<https://doi.org/10.1007/s00191-021-00738-3>

Trade Publications

Lange, T.Z. & Waring, T. (2019) The science of cooperation: Psychology provides new insights into collective action. *The Cooperative Business Journal*. URL:
<https://ncbaclusa.coop/journal/2019/summer/the-science-of-cooperation/>

Research & Technical Assistance Reports

Bompoti, N., Heberle, L., Kinahan, K., **Lange, T.Z.**, Belinova, O., Gay, M., Jackson, M., Sousa, O., Ugochukwu, O., Walker, S. (2024) [Road to Inclusionary Redevelopment Part 1: Factors shaping gentrification and displacement processes and indicators of neighborhood change](#). Brownfields Revitalization Anti-Displacement Strategies (BRADS) Program Practitioner Guide Series. UMass Dartmouth.

Cornicelli, L., Whitehead, J., Bragg, L., **Lange, T.Z.**, Southwick, R. (2022) Economic Aspects of the Great Lakes Recreational Fisheries and Factors Driving Change. Great Lakes Fishery Commission 2022 Project Completion Report

Working Papers & Preprints

Dissertation

Lange, T.Z. (2022) "The organizational evolution of small food buying clubs." Doctoral Dissertation, University of Maine. <https://digitalcommons.library.umaine.edu/etd/3573>

In Review

Lange, T.Z., Cornicelli, L., Whitehead, J., Bragg, L., & Southwick, R. Estimates of Recreational Anglers on North America's Great Lakes and their Economic Impacts *in review at the Journal of Great Lakes Research*

In Revision

Sullivan, K., **Lange, T.Z.**, Knef, M., Kafle, A., Waite, J. Value of Greenspace Reuse at Remediated Brownfields: A Meta-Analysis of Hedonic Studies.

Grant & Contract Support

Eastern Maine Development Corporation: "Rural Transit options for Piscataquis County and Penobscot County". Rubin, J. (PI), Bian, R. (Co-PI), **Lange, T.Z.** (Senior Personnel). June 2025 – September 2027. \$64,999

Conference Presentations

Lange, T.Z., "Fitness in the Food Club: Building towards a dynamic network model of cooperation and longevity in small scale food buying clubs" Lake Como School of Complex Networks: Theory, Methods, & Applications (4th edition) Student Lighting Talks. Villa del Gromello, Como, Italy. May 16, 2018

Lange, T.Z., Waring, T.M. "Prosocial Food: Measuring and Enhancing Prosociality in alternative Food Systems" North Eastern Evolutionary Psychology Symposium Conference; SUNY Binghamton University. June 18, 2017

Conference Posters

Lange, T.Z., Hartberg, Y., & Wilson, D.S. "Green Christianity: How Different Christian Groups use their Cultural Genome to React to Climate Change", Accepted for the North Eastern Evolutionary Psychology Symposium Conference, April 11th 2015, Boston, Mass.

Cruz, J.S., Hartberg, Y., **Lange, T.Z.**, & Wilson, D.S. "Defining and Comparing the Expressed Phenotypes of Christian Denominations using Sacred Texts", Accepted For Binghamton University Research Days, April 23rd, 2015

Teaching Experience

The George Washington University

2024 Spring Instructor of Record

GEOG 3198 Special Topics: Socio-Ecological Systems

University of Maine

2022 Fall	Curriculum Consultant	<i>ECO 266 Economic Data Analysis with R</i>
2021 Spring	Teaching Assistant	<i>ECO 363 Game Theory</i>
2021 Spring	Teaching Assistant	<i>ECO 381 Sustainability Science, Policy, Action</i>
2018 Fall	Teaching Assistant	<i>ECO 366 Applied Economic Data Analysis</i>
2018 Fall	Teaching Assistant	<i>ECO Behavioral & Experimental Economics</i>

Computer Software Skills

Statistics & Data Management: R(fluent), Stan, Stata, SPSS, E-Views, QSR Nvivo, IMPLAN
GIS : ArcGIS, Geoda, R, Google Earth, Google Maps

Programming Languages: R(Primary), Stan, HTML

Online Platforms: GitHub, Google Suite, Microsoft SharePoint

Faculty & Professional References

Timothy M. Waring, PhD

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