

Taylor Zachary Lange PhD

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Sustainability Science | Cultural Evolution | Resource Economics

Education	2016-2022	Ph.D.	University of Maine, Ecology & Environmental Science
	2016-2020	M.Sc.	University of Maine, Resource Economics & Policy
	2013-2015	M.A.	Binghamton University, Geography - Specialization in Natural Resource Management - Certificate in Evolutionary Studies
	2009-2013	B.A.	Binghamton University, Environmental Studies
Professional Positions	2020 – Present		Freelance Data Scientist Self Employed
	2021 – 2022		Ecological Economist Center for the Advancement of the Steady State Economy
	2019 – 2021		Teaching Assistant School of Economics, University of Maine
	2016 – 2021		Ph.D. Research Assistant School of Economics, University of Maine

Peer Reviewed Publications

Waring, T.M., **Lange, T.Z.**, Chakraborty, S. (2021) Institutional adaptation in the evolution of the ‘co-operative principles.’ *Journal of Evolutionary Economics*, 32.
<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://nbaclusa.coop/journal/2019/summer/the-science-of-cooperation/>

Research & Technical Reports

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 Revision

Lange, T.Z., Smolla, M., & Waring, T.M. (2022) Reciprocity supports cooperation in empirical economic networks. DOI: [10.31235/osf.io/edu6m](https://doi.org/10.31235/osf.io/edu6m) in revision at the *Proceedings of the Royal Society B*

In preparation

Lange, T.Z., & Waring, T.M. Endogenous and Interdependent preferences in real world economic networks.

Lange, T.Z., Cornicelli, L., Bragg, L., & Southwick, R. State Level Economic Impacts of Recreational Fishing in the Great Lakes.

Grant Support & Fellowships

2020 – University of Maine Summer Dissertation Writing Fellowship - \$2750

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

University of Maine

Fall 2022 Curriculum Consultant – *ECO 266 Economic Data Analysis with R*

Spring 2021 Teaching Assistant - *ECO 363 Game Theory*

Spring 2021 Teaching Assistant – *ECO 381 Sustainability Science, Policy, Action*

Fall 2018 Teaching Assistant – *ECO 366 Applied Economic Data Analysis*

Fall 2018 Teaching Assistant – *ECO 304 Behavioral & Experimental Economics*

Computer Software Skills

Operating: Windows Vista/7/10, macOS

Statistics: R (fluent), Stata, SPSS 12-22, E-Views, QSR Nvivo, Implan

GIS: ArcGIS 9-10.2.2, Geoda, R, Google Earth, Google Maps, Bing Maps

Programming Languages: R (primary), SQL

Online Platforms: Github, Google Suite

Faculty & Professional References

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Data Science Consulting Clients

Client Organization	Contacts
<hr/> Southwick Associates PO Box 6435 Fernandina Beach, Florida, 32035 https://www.southwickassociates.com/ November 2020 – Present	<hr/> Lisa Bragg Vice President of Research 207-852-1149 LBragg@southwickassociates.com Lou Cornicelli Senior Research Analyst 651-329-2965 lou@southwickassociates.com
<hr/> Mitchell Center for Sustainability Solutions 5710 Norman Smith Hall University of Maine Orono, ME 04469-5710 September 2022 - Present	<hr/> Timothy Waring Associate Professor 207-217-5853 timothy.waring@maine.edu
