

Sahan T. M. Dissanayake

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SUMMARY

Sahan T. M. Dissanayake is an Associate Professor of Economics at Portland State University. Dr Dissanayake's expertise focuses on applying economic tools and methods to model and solve environmental issues. His research centers on ecosystem services and land and marine conservation, climate change, energy policy and economic impacts, and environmental issues in developing countries. He has published 37 peer-reviewed journal articles, 6 book chapters, and 13 policy reports and news articles and his work has been cited over 800 times.

Dr. Dissanayake's research primarily uses choice experiment survey methods and spatial optimization models and he has explored coastal flood adaptation in Oregon, carbon footprints for industrial hemp and for small organizations in Oregon, urban greenspace use in Portland, land tenure in Peru, grassland restoration in Illinois, the tree shade program and wildfires and water quality in Oregon, national parks in Maine, deforestation (REDD+) in Nepal and Ethiopia, coral reefs in Okinawa, seafood eco-labeling in New England, conservation on military lands in the U.S., and ancient irrigation systems in Sri Lanka. He also serves as an Associate Editor for *Environment and Development Economics*.

Dr. Dissanayake has an established history of impactful participatory research; he worked with the Natural Resource Council of Maine to conduct a preference evaluation study to better understand preferences for a new National Park in Maine. The study informed efforts to designate the Katahdin Woods and Waters National Monument in Maine. He was the Co-PI for a NOAA research grant exploring the acceptance of coastal climate adaptation in Oregon. He is currently leading a U.S. Forest Service funded participatory research project to create a spatial optimization model to guide post-wildfire water quality management decisions. He has received over \$650,000 in total grant funding.

Dr. Dissanayake regularly engages with practitioners and policy makers and was the lead organizer for a conference on climate change and land conservation held in Washington DC in 2017, the faculty lead for the 2019 Conservation Finance Bootcamp at PSU and he regularly teaches for the global Kinship Conservation Fellows summer program and taught for the South Asian Environment and Development Network (SANDEE) Summer School in 2024.

Dr Dissanayake is a passionate and award-winning educator. He has taught a range of classes at Colby College, Portland State University, and the University of Illinois including graduate and undergraduate microeconomic theory, mathematical economics, environmental economics, natural resource economics, the economics of ecosystem services and biodiversity, and principles of microeconomics and macroeconomics. He is also passionate about mentoring students and has guided some of his students, including undergraduate students, to present at professional conferences and he has 11 papers co-authored with students.

EDUCATION

Ph.D.	2011	Agricultural and Applied Economics	University of Illinois
M.Sc.	2010	Applied Mathematics	University of Illinois
B.A. (cum laude)	2004	Computer Science and Economics	Ohio Wesleyan University

ACADEMIC APPOINTMENTS

Associate Professor , Department of Economics, Portland State University	FA 2021–Present
Faculty Director , Institute for Sustainable Solutions, Portland State University	FA 2023–Present
Program Director , Graduate Certificate in Sustainability, Portland State University	FA 2018–Present
Assistant Professor , Department of Economics, Portland State University	FA 2017–SU 2021
Assistant Professor , Department of Economics, Colby College	FA 2012–SU 2016
Visiting Scholar , Department of Applied Economics, University of Minnesota	FA 2015–SP 2016
Honorary Visiting Senior Lecturer , Postgraduate Institute of Agriculture, Sri Lanka	12/2015–03/2016
Assistant Professor (by courtesy) , Department of Economics, Portland State University	FA 2012–SU 2016
Visiting Assistant Professor , Department of Economics, Portland State University	FA 2011–SP 2012

PROFESSIONAL APPOINTMENTS

Research Advisor , International Union for the Conservation of Nature (IUCN)-Sri Lanka	SU 2016–Present
Board of Directors , Forest Park Conservancy	SU 2020–SU 2023
Board of Directors , Natural Resources Council of Maine	FA 2016–SU 2017
Associate Director , Goldfarb Center for Public Affairs and Civic Engagement, Colby College	FA 2014–SP 2015
Research Fellow , Goldfarb Center for Public Affairs and Civic Engagement, Colby College	FA 2012–SU 2016

PUBLICATIONS

Student Coauthored*: 11, Citations: 819, H-Index: 13, i10-Index: 20, Research Gate-Score: 597, G-Scholar:<https://goo.gl/h46nc9>, ORCID: <https://orcid.org/0000-0002-4342-5979>

Refereed Articles

- 37 Dissanayake, S. T. M., & Shah, P. (2024). **Land conservation and climate change**. In T. Lundgren, M. Bostian, & S. Managi (Eds.), *Encyclopedia of Energy, Natural Resource, and Environmental Economics* (2nd ed., pp. 289–298). Elsevier.
- 36 Blackman A., Dissanayake S. T. M., Martinez Cruz A. (2024) **The benefits of titling indigenous communities in the Peruvian Amazon: A stated preference approach**. *Land Economics*, 38(2).
- 35 Dissanayake S. T. M. and S. Jacobson (2023), "**An Absolute Giant in the Classroom:**" **What We Can Learn from Thomas Tietenberg about Teaching**, *International Review of Env and Res Economics*: 17(4) 481-500.
34. Albers, H. J., C. H. Chang, S. T. M. Dissanayake, K. J. Helmstedt, K. Kroetz, B. Dilkina, I. Zapata-Mor'an, C. Nolte, L. M. Ochoa-Ochoa, and G. Spencer. (2023). **Anticipating anthropogenic threats in acquiring new protected areas**. *Conservation Biology*..
33. ^c*Dissanayake S. T. M., Vidanage S. (2023). **Valuing ecosystem services from restoring ancient irrigation systems: An application comparing labor vs. monetary payments for choice experiments**. *Agricultural and Resource Economics Review*. 52(2), 422-449.
32. Jayaratne, C., Gunawardena, U. A. D. P., Edirisinghe, J. C., Dissanayake, S. T. M., & Rajapaksa, D. (2023). **Assessing visitor preferences and willingness to pay for Marine National Park Hikkaduwa: application of choice experiment method**. *Sri Lanka Journal of Social Sciences*, 45(2).
31. Netusil, N. R., Dissanayake, S. T. M., Lavelle, L., Ando, A. W. & Wells (2023). **Does presentation matter? An analysis of images and text in a choice experiment of green roofs**. *Q Open* 3 (1).
30. ^c*Priestley M., Williams J. F., Dissanayake S. T. M. (2022). **Teaching Fisheries Bycatch: A game to explore economic and behavioral drivers of bycatch**. *Agricultural and Resource Economics Review*. 51, 423–454.
29. Netusil, N. R., Lavelle, L., Dissanayake, S., & Ando, A. W. (2022). **Valuing the public benefits of green roofs**. *Landscape and Urban Planning*, 224, 104426.
28. *Hardy, C. L., C. E. De Rivera, L. L. Bliss-Ketchum, E. P. Butler, S. T. M. Dissanayake, D. A. Horn, B. Huffine, A. M. Temple, M. E. Vermeulen, H. Wallace and J. Karpis. (2022). **Ecosystem Connectivity for Livable Cities: a Connectivity Benefits Framework for Urban Planning**. *Ecology and Society* 27 (2):36.
27. *Butler, E. P., Bliss-Ketchum, L. L., de Rivera, C. E., Dissanayake, S., Hardy, C. L., Horn, D. A., ... & Wallace, H. (2022). **Habitat, geophysical, and eco-social connectivity: benefits of resilient socio-ecological landscapes**. *Landscape Ecology*, 37(1), 1-29.
26. Dissanayake S. T. M., S. Jacobson. (2021) **Money Growing on Trees: A Classroom Game about Payments for Ecosystem Services and Tropical Deforestation**. *Journal of Economic Education*. 52:3, 192-217.
25. LaFave D., A. D. Beyene, R. Bluffstone, S. T. M. Dissanayake, Z. Gebreegziabher, A. Mekonnen, M. Toman. (2021) **Impacts of Improved Biomass Cookstoves on Child and Adult Health: Experimental Evidence from Rural Ethiopia**. *World Development*. V-140, 105332.
24. ^cWang Y., H. Önal, S. T. M. Dissanayake. (2021). **Delineating conservation areas for cohabiting species: An example of vernal pond conservation from Fort Stewart in Georgia, USA**. *Frontiers-Ecol&Evol*, 9:702831.
23. Abidoye B., S. T. M. Dissanayake, S. Jacobson. (2021) **Seeds of Learning: An Ecosystem-based Adaptation Classroom Game**. *Applied Economics Teaching Resources*. 21:V3.
22. Wang Y., Q. Fang, S. T. Dissanayake , H. Önal (2020). **Optimizing conservation planning for multiple cohabiting species**. *PLOS ONE*, 15(6), e0234968.
21. ^cDissanayake S. T. M. and A. G. Meyer. (2020). **Incorporating Beliefs and Experiences into Choice Experiment Analysis: Implications for Policy Recommendations**. *Applied Economic Perspectives & Policy*. 13039.
20. Shah P., S. T. Dissanayake, Y. Fujita, P.A. Nunes (2019). **Impact of a local, community-based management regime when defining marine protected areas: Empirical results from Okinawa, Japan**. *PLOS ONE*, 14(3)
19. ^cDissanayake S. T. M. (2018). **Editorial - The Economics of Nature: Using Economics Methods to Value, Protect and Restore Nature**. *Ceylon Journal of Science*. 47 (3): 211-212.

18. Cline S. and S. T. M. Dissanayake^c (2018). **Special Issue: Land Conservation and Climate Change**, Co-Editors – Cline and Dissanayake. *Agricultural and Resource Economics Review*, 47(2), 195-200.
17. Vieider F. M., Beyene A., Bluffstone R., Dissanayake S. T. M., Gebreegziabher Z., Martinsson P. & Mekonnen A. (2018). **Measuring risk preferences in rural Ethiopia**. *Economic Development and Cultural Change*. 66(3).
16. *McClenaghan L., R. Matsuura, P. Shah, S. T. M. Dissanayake (2018) **Shifted baselines reduce willingness to pay for conservation**, *Frontiers in Marine Science*. 5, 48.
15. ^c*Dissanayake S. T. M. ^c and M. K. Hennessey (2017) **Conservation Choices in the Face of Sea-Level Rise: A case-study from Maine**, *Agricultural and Resource Economics Review*. 46(2), 388-419.
14. ^c*Matsuura R., S. T. M. Dissanayake, A. G. Meyer (2016) **The Proposed Park in Maine's North Woods: Preferences of Out-of-State Visitors**, *Maine Policy Review* 25.1: 54 -62.
13. Dissanayake S. T. M. and S. Jacobson. (2016) **Policies with varying costs and benefits: A land conservation classroom game**, *Journal of Economic Education*. 47:2.
12. * McClenachan L., S. T. M. Dissanayake, and X. Chen. (2016) **Fair trade fish: Consumer support for seafood sustainability**, *Fish and Fisheries*. 17(3), 825-838.
11. Önal H., P. Woodford, S. Tweddle, J. Westervelt, M. Chen, S. T. M. Dissanayake, G. Pitois. (2016) **A Dynamic Simulation/Optimization Model For Scheduling Restoration Of Degraded Military Training Lands**, *Journal of Environmental Management*. pp. 144-157.
10. Önal H., Y. Wang, S. T. M. Dissanayake, and J. D. Westervelt. (2016) **Optimal Design of Compact and Contiguous Conservation Management Areas**, *European Journal of Operational Research*. 251 (3).
9. ^c Dissanayake S.T.M. (2016) **Using STELLA Simulation Models to Teach Natural Resource Economics**, *Journal of Economic Education*. 47:1.
8. ^c* Cosgrove B., D. LaFave, S. T. M. Dissanayake, M. Donihue. (2015) **The Economic Impact of Shale Gas Development: A natural experiment along the NY and PA border**, *Agricultural and Resource Economics Review*. Vol 44 Iss 2. 20-39.
7. *Donihue M., S. T. M. Dissanayake, O'Keeffe L. (2015) **A Case Study of the Economic Impact of Seasonal Visitors to a Lake Watershed Environment**, *Athens Journal of Tourism*. Vol 2, No 2. 81-92.
6. ^c Dissanayake S.T. M., P. Jha, B. Adhikari, R. Bista, R. Bluffstone, H. Luintel, P. Martinsson, N. Paudel, E. Somanathan, and M. Toman. (2015) **Community Managed Forest Groups and Preferences for REDD+ Contract Attributes: A choice experiment survey in Nepal**. *Journal of Forests and Livelihoods*. 13(1).
5. * Witkin T., S. T. M. Dissanayake, L. McClenachan. (2015) **Opportunities and barriers for fisheries diversification: Consumer choice in New England**, *Fisheries Research*. 168, 56-62.
4. ^c Dissanayake S. T. M. and A. W. Ando. (2014) **Valuing restoration: conservation tradeoffs and respondent experience**, *Land Economics*. Vol 90 no. 2. 237-259.
3. ^c Dissanayake S. T. M., H. Önal, J. D. Westervelt, and H. Balbach. (2012) **Incorporating species relocation in reserve design models: An example from Ft. Benning GA**, *Ecological Modeling*. Vol 224 Iss 1. 65-75.
2. ^c Dissanayake S. T. M., and H. Önal. (2011) **Amenity Driven Price Effects and Conservation Reserve Site Selection: A Dynamic Linear Integer Programming Approach**, *Ecological Economics*. Vol 70, No 12, 2225.
1. ^c Dissanayake S. T. M., H. Önal, and J. D. Westervelt. (2011) **Optimum Selection of Conservation Reserves: Extensions to Multiple Land Use**, *Military Operations Research*, Vol 16, No. 1.

Book Chapters and Book Reviews

- Dissanayake S. T. M. (2023), **"Payments for Ecosystem Services: An Introduction**, *EBSCO-Pathways to Research*.
- Dissanayake S. T. M. (2023), **"Non-Market Valuation Methods for Interdisciplinary Audiences**, *EBSCO-Pathways*.
- Williams J. F., A Mitra, S. T. M. Dissanayake. (2023) **Mitigating negative consequences of unexpected environmental shocks: PES programs, climate uncertainty, insurance, and inspections** in A. Bucciol, A. Tavoni, M. Veronesi (eds) *Behavioural Economics and the Environment: A Research Companion*. Routledge.
- Dissanayake S. T. M., S. Vidanage (2020) **Analyzing Environmental Benefits of Village Tank Restoration Programmes Using Stated Preference Approaches**, in J Weerahewa (eds), *Agricultural Policy Analysis*, EU-TAMAP.
- * Shah P., S. T. M. Dissanayake, N. Carlson, Y. Fujita, P. A. L. D. Nunes. (2017) **Preferences for marine protection in Okinawa: A comparison of management options and two groups of beneficiaries**, in the *Handbook on the Economics and Management for Sustainable Oceans by UNEP and Edward Elgar*.
- Dissanayake S. T. M., H. Önal, J. D. Westervelt, and H. Balbach. (2014) **Optimal Selection of Clustered Conservation Lands Using Integer Programming: the Case of Fort Stewart in Georgia, USA** in P. A. L. D. Nunes, P. Kumar and T. Dedeurwaerdere (eds) *Handbook on TEEB*.
- Dissanayake, S. T. M. (2015) **Book Review - The environments of the poor in South Asia: reducing poverty, protecting the environment & adapting to climate change**. *Journal of Natural Resources Policy Research*. 7-4.

SELECTED WORKING PAPERS (likely to be submitted during 2024/25)

- *Nester K. Arnold, G. S. T. M. Dissanayake^c. **Local Economic Impact of Hemp Cultivation: Evidence from a Natural Experiment Created by the 2018 Farm Bill**
- *S. T. M. Dissanayake^c, A. D. Beyene, R. Bluffstone, Z. Gebreegziabher, A. Mekonnen, G Kiggundu, S. H. Kooser, P. Martinsson, M. Toman. **Improved Cook Stoves for Climate Change Mitigation? Evidence of values, preferences and carbon savings from a choice experiment in Ethiopia.**
- S. T. M. Dissanayake^c, P. Jha, B. Adhikari, R. Bista, R. Bluffstone, H. Luintel, P. Martinsson, N. Paudel, E. Somanathan, and M. Toman. **Forest Carbon Supply in Nepal: Evidence from a Choice Experiment.**
- P. Shah, S.T. M. Dissanayake^c. **Optimizing Coastal Land Conservation: A Case Study Application of Modern Portfolio Theory to the Coastline of New England..**
- S. T. M. Dissanayake, G. Kiggundu, D. Ervin, R. Schei, R. Emanuel, K. DeBaker, and B. Roll. **Valuing Ecosystem Service Benefits from Green Pollution Control Infrastructure: Evidence from Riparian Shading Programs in the Tualatin Watershed, Oregon.**

RESEARCH DISSEMINATION AND COMMUNITY OUTREACH**Short Courses (Lecture)**

- South Asian Development and Environmental Economics (SANDEE) Summer School, Thailand 2024
- Kinship Conservation Fellows Program, Bellingham Washington Summer 2024, 2023, 2022, 2021, 2019

Dissemination and Capacity Building Workshops (Organizing/Facilitating)

- Co-organizer Workshop on Nature Prescriptions at PSU in Fall 2024
- Technical Adviser – PSU-ISS’s Oregon Country Fair Carbon Footprint Evaluation Spring 2020
- Co-organizer Workshop on Urban Greenspace, Access and Barriers at PSU in February 2020
- Conducted Workshops on Ecosystem Service Values from Sustainable Land Management for FAO/IUCN-Sri Lanka in Sri Lanka in March/August/December 2019
- Co-organizer (with ISS) National Conservation Finance Bootcamp at PSU June 2019
- Coordinator – Oregon Resource and Environmental Economics (OREE) Meeting Fall 2017 - Present
- Lead organizer for the 2017 NAREA Workshop Land Conservation and Climate Change in Washington DC
- Coordinator for cascade tank ecosystem services working group with IUCN. Colombo, Sri Lanka, March 2018
- Conducted Workshop on Land Conservation Strategies and Policies to Implement REDD+ for the UN REDD+ Program and the Forest Department in Sri Lanka August 2016
- Conducted multiple capacity building workshops on The Economics of Ecosystem Services and Biodiversity for University of Peradeniya and IUCN
 - 2-Day Workshops in Sri Lanka January 2015, August 2016
 - 1-Day Workshop: in Sri Lanka August 2013, December 2015, Nepal March 2013

PUBLISHED POLICY BRIEFS, WORKING PAPERS, AND TECHNICAL REPORTS**World Bank Research Digest and Working Papers**

- Forest Carbon Supply in Nepal: Evidence from a Choice Experiment. 2019 (WBWP 8648)
- Stability and Evolution of Preferences for Improved Cookstoves -- A Difference-in-Difference Analysis of a Choice Experiment from Ethiopia. 2019 (WBWP 8928)
- Improved Cook Stoves for Climate Change Mitigation? Evidence of values, preferences and carbon savings from a choice experiment in Ethiopia. 2018. (WBWP 8499)
- Deforestation Prevention Programs and Community-Managed Forestry. 2016. *WB-Research Digest*. V 10, N 4
- Preferences for REDD+ Contract Attributes in Low-Income Countries: A CE in Ethiopia. 2015. (WBWP 7296)
- Community managed forest groups and preferences for REDD+ contract attributes: a choice experiment survey of communities in Nepal. 2015. (WBWP 7326)
- Measuring risk preferences in rural Ethiopia: Risk tolerance and income proxies. 2015. (WBWP 7137)
- Can Improved Biomass Cookstoves Contribute to REDD+ in Low-Income Countries? Evidence from a

GRANTS AND AWARDS

Research Grants External (at PSU)

USFS – Post Wildfire Water Quality – A Spatial Optimization Decision Support System					
Designation – PI	PIAF# 264251	Jan 2023 – Dec 2024	\$38,000		Awarded
USFS – <i>Evaluating the Effectiveness of Nature Prescriptions</i>					
Designation – Co-PI	PIAF#51161	Jan 2023 – Dec 2024	\$150,000		Awarded
NOAA - <i>Trust and Community Acceptance of Coastal Flood Mitigation</i>					
Designation – Co-PI	PIAF#37909	Sept 2021 – Aug 2023	\$299,605		Awarded
PPR – <i>Community Center Valuation for Portland Parks and Rec</i>					
Designation – Co-PI	PIAF#375161	Dec 2021 – Nov 2022	\$50,000		Awarded
USFS - <i>Environmental justice, use, and access to local and national forests in the Portland metro area</i>					
Designation – PI	PIAF#32195	March 2019 – Dec 2021	\$70,000		Awarded
USDA-Estimating the Values of Prairie Grassland Habitat (subaward from U of Illinois to PSU).					
Designation – Co-PI	PIAF#32425	Jan 2020 – August 2021	\$76,122 (PSU-\$10,777)		Awarded

Research Grants Internal (at PSU)

PSU Faculty Enhancement Grant, <i>Smart Data to Link Urban Park Use and Cardiac Health Benefits</i>					
Designation – PI		January 2022	\$15,000		Awarded
PSU Faculty Enhancement Grant, <i>Ecosystem Values from Forest Park, Portland Oregon</i>					
Designation – PI		January 2019	\$15,000		Awarded

Research Grants Awarded (while at Colby College or University of Illinois)

Goldfarb Center and Social Science Grant to study preferences for national parks in Maine. 2015-2017	\$10,800
Social Science Division Grant to study Cascading Tank Systems in Sri Lanka. 2016.	\$3,000
World Bank/PSU to study health effects and preferences for improved stoves. 2016.	\$24,048
Social Science Division Grant to study human wildlife conflict and sabbatical travel. 2015.	\$4,700
Goldfarb Center Faculty Research Grant to study preferences for seafood labels. Colby College. 2014.	\$2,200
Goldfarb Center Faculty Research Grant to study School Districting. Colby College. 2012.	\$2,750
University of Illinois Research Board to study grassland restoration (PI Amy W. Ando). 2010-2011.	\$4,630
US Army Construction Engineering Research Laboratory to study land use (PI Hayri Onal). 2010-12.	\$114,274

AWARDS

Roy W. Koch Award for Sustainability Leadership, 2023, Portland State University
 Best Paper Award, 2022, AAEA-Applied Economics Teaching Resources (AETR)
 NAREA Distinguished Member Award, 2021, North American Agricultural and Resource Economics Association
 CUPA Outstanding Teacher Award - Economics, 2021, Portland State University
 Finalist – CUPA Outstanding Teacher Award - Economics, 2019, Portland State University
 Nominated for PSU Sustainability Teaching Award and Research Award, 2019, Portland State University
 Young Alumni Award (Inaugural Award), 2014, Ohio Wesleyan University
 Outstanding PhD Student, 2011, Agricultural and Consumer Economics, University of Illinois
 Outstanding Senior in Economics, 2004, Department of Economics, Ohio Wesleyan University
 Robert Ferber Dissertation Award for excellence in survey research, 2011, Survey Research Laboratory, U of I
 North American Colleges and Teachers of Agriculture (NACTA) Graduate Student Teaching Award, 2011
 Louis V. Logeman Graduate Student Teaching Award, 2011, College of ACES, University of Illinois
 Named on the Center for Teaching Excellence’s list of “Teachers Ranked as Excellent” for 8 semesters
 Finalist Ribbon, 2009, Poster Session, Agricultural and Applied Economics Association Annual Meeting
 Alice Batchelor Graduate School Scholarship awarded to the most promising senior in Economics, OWU 2004
 David H Staley Outstanding Junior Prize-2nd Place, Department of Math and CS, OWU, 2003
 Dean’s List (All semesters between Spring 01 – Spring 04), Ohio Wesleyan University
 Trustee Scholarship (\$85,000), Ohio Wesleyan University, 2000-2004

TEACHING AND MENTORING

Teaching Experience

Portland State University:

2017 –Present: Masters Research Project I & II (EC596/EC597), Introduction to Mathematical Economics (EC380), Public and Private Investment Analysis (EC314), Economics of Env Issues (EC332), Economics of Sustainability (EC522), Env and Natural Resource Economics (EC430/530)

2011-2012: Advanced Microeconomics (masters), Applied Microeconomic Theory (masters), Mathematical Economics (senior/masters), Intermediate Microeconomics, Environmental and Natural Resource Economics

Colby College (2012-2017):

Principles of Microeconomics, Natural Resource Economics (junior/senior), Environmental and Resource Economics (sophomore), Economics of Ecosystems and Biodiversity (senior seminar)

Founding Chief Editor of the *Journal of Environmental and Resource Economics at Colby*, an undergraduate journal featuring peer reviewed publications available in print and online, <http://digitalcommons.colby.edu/jerec/> . Three issues with over 3000 downloads.

University of Illinois (2005-2011):

Natural Resource Economics (junior), Summer Math Camp for Masters and PhD Students, Principles of Macroeconomics (Head TA for five years), Environmental Economics (sophomore, TA)

Student Mentoring and Supervising

Research Presentations:

Ten students (3 Portland State) presented at national conferences (Heartland, NAREA, WEAI)
Multiple students presented at local conferences/research forums/on-campus research events

Master's Thesis/Research Project Supervision

Ginger Jensen	The Economics of Industrial Hemp (Portland State University)	2021-23
Jake Kennedy	Urban Parks: Amenities, Use, and Barriers (Portland State University)	2012-13
Carole Hardy	Ecosystem Services from Urban Forests (Portland State University)	2017-19
Rhiannon Jerc	Preferences for Local & Organic Food (University of Illinois)	2012-13
Rondi Schei	Preference for Riparian Ecosystem Services (Portland State University)	2011-14
James Anders	Spatially Efficient Energy Subsidies (Portland State University)	2011-13

Undergraduate's Thesis/Honors/Project Supervision

Naomi Joyce	Green Firms and Green Consumers: A review (Portland State University)	2020/21
Giang Nguyen	Economics of Optimal Recycling (Portland State University)	2019/20
George Voigt	Portfolio optimization for conservation given climate change (Colby College)	2016/17
Ryu Matsuura	Modeling household fuel choice in Ethiopia (Colby College)	2016/17
Zach Esakof	Spatially efficient provision of renewable energy (Colby College)	2014/15
Gilbert Kiggundu	Preferences for stove adoption and riparian shading (Colby College)	2014/15
Brendan Cosgrove	Analyzing economic impact of hydraulic fracking (Colby College)	2013/14
Meagan Hennessey	Optimal conservation selection under climate change (Colby College)	2013/14

High School Students

James Siderius (through Portland State University). The impact of erosion on hydroelectric dams. 2012
2nd place and 3 awards at the regional science fair.
Joseph Mosley, University of Illinois College of ACES's-Research Apprenticeship Program (2 students) 2011

Awards Received by Students

Best Undergraduate Poster – Jackie Chen (Research Assistant), Maine Economics Conference	2014
Best Undergraduate Poster – Brendan Cosgrove (Honors Student), Maine Economics Conference	2013
Green Crab Mitigation Competition-Second Place, Sarah Whitney and Jeremy Ravenelle (CARA RA), NAREA Conference Travel Awards (7 students)	2015 2012-17

GOVERNANCE AND OTHER PROFESSIONAL SERVICE

Governance and Service Activities for the University, College, Department

<u>University Level</u>	Faculty Development Committee (2022-present), Academic Quality Committee (AQC) (2018-2022), Institutional Review Board for Human Subject Assessment (2018-2022) Undergraduate Research Committee (2018-2020)
<u>College Level</u>	CUPA Curriculum Committee (2019-2020)
<u>Department Level</u>	Department Promotion and Tenure Committee (2022), Department Undergraduate Committee (2018-2022), Department Learning Outcomes Committee (2018-2019), Department Task Force on Faculty Teaching, Productivity and Student Success (2019-2020)

Internal Seminars and Lectures for the University, College, Department

Guest Lecture for Environmental Justice – Fall 2023/Fall 2022
 Guest Lecture for Emergency Management Fall 2023/Fall 2022
 Guest Lecture for Urban Ecology for Renee Meyers – Winter 2023
 Guest Lecture for Conservation Biology for Luis Ruedas – Winter 2023/2022/2020/2019/2018
 Department of Sociology Seminar – Spring 2022
 Panelist for *PSU @ this Moment* Series on Covid 19 and Climate Change – Spring 2020
 The Culinary Art of Teaching – Session for PSU Office of Academic Innovation teaching training
 Guest Lecture for Ecosystem Restoration for Jen Morse – Fall 2019
 Guest Lecture for Freshman Inquiry-Human/Nature for Melissa Haeffner – Winter 2018
 Seminar for the School of Environment – Winter 2018
 Research Seminar for the ESM Department – Fall 2017
 Seminar for Economics – Fall 2017, Winter 2019, Fall 2020

Professional Service

Editorial Work: Associate Editor – *Environment and Development Economics*
 Guest Editor - *Agricultural and Resource Economics Review* August 2018 Issue on Land Conservation and Climate Change
Referee: *Environment and Development Economics*(2), *American Journal of Applied Economics*(2), *Proceedings of the National Academy of Science (PNAS)*, *World Development*(2), *Land Use Policy*(2), *Ecological Applications*, *Ecosystem Services*, *Frontiers-Ecology and Evolution*, *Landscape and Urban Planning*, *Resource and Energy Economics*, *Agricultural and Resource Economics Review* (4), *Applied Economics*, *Biological Conservation*, *Conservation Letters* (2), *Ecological Economics* (2), *Journal of Economic Education* (2), *Food Policy*, *Forest Economics*, *Forest Policy and Economics*, *Marine Affairs and Policy*, *USDA-Valuation Workshop* (2019), *World Bank Land & Poverty* (2014/2019)
PhD Thesis Evaluation: University of Reading, UK (2023), University of Western Australia, Australia (2018)
Undergraduate Thesis Evaluation: Reed College (2018-2019, 2019-2020, 2021-2022)
Grant Evaluation: SANDEE (2023, 2021, 2018), Delaware SeaGrant (2021), Environment for Development (EfD) Network (2017, 2015), 3ie-Development Grant Window, Hudson River Foundation, Goldfarb Center Grant Evaluation (FA2013, SP2014), Maine Agricultural and Forest Experiment Station Grants (2014, 2015, 2016)
Academic Association Service: NAREA Scholar's Committee (2021-2022), NAREA-Career Mentoring Program Committee (2015-2018), NAREA-Workshop Committee (2015-2018), NAREA- Master's Thesis Committee (2013-2016), NAREA-Webmaster (2012-2018)
 AAEA Abstract Selection Coordinator for Natural Resource (2016-2017)

Memberships in Professional Societies (within the last five years)

Association of Environmental and Resource Economists (AERE), Northeastern Agricultural and Resource Economics Association (NAREA), Agricultural & Applied Economics Association (AAEA), American Economic Association (AEA), South Asian Network for Development and Environmental Economics (SANDEE)

RECENT RESEARCH PRESENTATIONS (^S-Presented by Student co-author, ^P-Poster)*Coastal Flood Adaptation and the Role of Trust*

- **AERE@WEAI**, Seattle, WA, July 2024

Wildfire and Water Quality: A Spatial Optimization Model for Guiding Management Actions

- **AERE@WEAI**, Seattle, WA, July 2024
- **CLAS – New School Seminar –Portland State University**, Portland, Oregon, May 2024
- **USGS-PSU Seminar**, Portland, Oregon, May 2024
- **W5133-Non-Market Valuation Meeting**, Washington D.C., February 2024

The Economics of Conservation: How Economics Can Help Protect Biodiversity and Ecosystem Services.

- **Guest Lecture in Conservation Biology**, Portland State University, Portland OR, February 2023,2022,2021
- **Invited Presentation**, Department of Economics, Ohio Wesleyan University, Delaware, OH. October 2013
- **Guest Lecture in BI 131 – Biodiversity**, Colby College. Waterville ME. October 2013 & November 2014
- **Guest Lecture in ES 343 – Environmental Change**, Colby College. Waterville ME. September 2013 & 2012

Coastal Conservation under Climate Change: Use of Portfolio Optimization Methods

- **CLAS – New School Seminar –Portland State University**, Portland, Oregon, May 2024
- **School of Environment Seminar –Portland State University**, Portland, Oregon, February 2018
- **Northeastern Agricultural and Resource Economics Association Workshop^S**, Washington D.C., June 2017

Comparing Labor vs Monetary Payments in Choice Experiments: An Application to Cascade Tank Systems

- **Northeastern Agricultural and Resource Economics Association Workshop**, Mystic, Connecticut, June 2022
- **W4133 Non-Market Valuation Meeting^S**. Hood River, OR, March 2022

Incorporating Attribute Non-Attendance into Choice Experiment Analysis

- **Heartland Environmental and Resource Workshop^P**, Urbana-Champaign, Illinois. September 2022
- **AERE@WEAI**. Portland, OR, July 2022
- **W4133 Non-Market Valuation Meeting^S**. Hood River, OR, March 2022

Environmental Justice and Urban Greenspace: A Framework to Explore Use, Amenities, and Barriers

- **Guest Lecture in Urban Ecology**, Portland State University, Portland OR, Winter 2024
- **Guest Lecture in Environmental Sociology**, Portland State University, Portland OR, Fall 2023
- **AERE@WEAI**. Portland, OR, July 2022
- **Research Seminar – Department of Economics, PSU**, Portland, Oregon, November 2020

Valuing Urban Greenspace and Incorporating Response Time into Choice Experiment Analysis

- **AERE@Southern Economics Association Annual Meeting**, Houston, Texas, November 2021
- **Northeastern Agricultural and Resource Economics Association Meeting** Online, June 2021
- **W4133 Non-Market Valuation Meeting^S**. Online, March 2021

Delineating conservation areas for cohabiting species in military installation

- **BioEcon 2021**, Jackson, Wyoming, September 2021

Teaching Fisheries Bycatch: Exploring economic and behavioral drivers of bycatch through a classroom game

- **Southern Economic Association Annual Meeting**, Remote due to Covid-19, November 2020
- **Seafood Conference by LocalCatch**, Portland, OR October 2019

Forest Carbon Supply in Nepal: Evidence from a Choice Experiment

- **Environment for Development (EfD) Annual Meeting**, Bogota Columbia November 2019
- **Sustainable Development Meeting – University of Michigan**, Ann-Arbor Michigan, October 2019
- **Heartland Environmental and Resource Workshop^P**, Urbana-Champaign, Illinois. September 2018

Incorporating Resource Use Conflicts and Beliefs on Future Status-Quo Outcomes into Choice Experiment Analysis: Implications for The National Park Service

- **USDA Advances in Non-market Valuation Conference**, Washington DC, April 2019

Restoring Traditional Irrigation Systems for Ecosystem Service and Livelihood Improvements: Cascading Tank Systems in Sri Lanka

- **Cascade Ecology and Management Conference**, University of Peradeniya, Sri Lanka September 2021
- **Research Seminar – Department of Economics, PSU**, Portland, Oregon, April 2020
- **A Community on Ecosystem Services (ACES) Annual Meeting**, Washington DC, December 2018
- **Research Seminar – National Institute of Fundamental Studies**, Kandy, Sri Lanka, August 2018
- **UNDP Biodiversity Finance (BioFin) Annual Meeting**, Chennai, India, March 2018
- **Research Seminar – Environmental Studies and Management-PSU, Portland, OR**. February 2018
- **W3133 non-market valuation meeting**. San-Diego, CA. February 2017
- **Heartland Environmental and Resource Workshop**, Urbana-Champaign, Illinois. November 2016

Stability and Evolution of Preferences: A repeated choice experiment on improved stove adoption

- **Research Seminar-Oregon State University**, Corvallis, Oregon, February 2018
- **Environment for Development (EFD) Annual Meeting**, Addis Ababa, Ethiopia. November 2017
- **Heartland Environmental and Resource Workshop^S**, Urbana-Champaign, Illinois. October 2017
- **Research Seminar-University of Peradeniya**, Peradeniya Sri Lanka, August 2017

Controlling for Attribute Non-Attendance in Choice Experiment Analysis: A Case Study on Preferences for REDD+^S

- **Research Seminar – Department of Economics, PSU**, Portland, Oregon, February 2019
- **Heartland Environmental and Resource Workshop^{P,S}**, Urbana-Champaign, Illinois. September 2018

Opportunity Costs of Carbon Sequestration and Preferences for REDD+ Contract Attributes in Community Managed Forests: Evidence from a Choice Experiment in Nepal

- **Sustainable Development Meeting – University of Michigan**, Ann-Arbor Michigan, October 2018
- **Policy Dissemination and Technical Workshop on REDD+**, Kathmandu, Nepal, June 2014
- **Research Seminar**, Kathmandu University, Kathmandu, Nepal, June 2014

Preferences for A New National Park In Maine^S

- **Heartland Environmental and Resource Workshop^S**, Urbana-Champaign, Illinois. November 2016

Coastal Conservation under Climate Change: A Marsh Migration Example from Maine

- **Northeastern Agricultural and Resource Economics Association Workshop**, Bar Harbor, ME, June 2016
- **Northeastern Agricultural and Resource Economics Association Meeting^S**, Morgantown, WV, June 2014

Evaluating Preferences for Marine Conservation: Management Structure and Beliefs on Baselines

- **Environment for Development (EFD) Annual Meeting**, Shanghai, China. November 2015

Preferences for Socially Sustainable Seafood Labels

- **Heartland Environmental and Resource Workshop**, Urbana-Champaign, Illinois. October 2015
- **Northeastern Agricultural and Resource Economics Association Meeting^S**, Newport, RI, June 2015

Riparian Shade Credit Programs: Valuing Ecosystem Services Benefits and Optimal Riparian Restoration

- **AERE Sessions at the Midwest Economics Association Meeting**, Chicago IL, April 2016
- **Invited Presentation-USGS**, Washington D.C., April 2016
- **W3133 non-market valuation meeting**, Portland, OR, February 2016
- **Research Seminar**, Portland State University, Portland Oregon, November 2014
- **Invited Presentation, Clean Water Services**, Portland Oregon, November 2014
- **Heartland Environmental and Resource Economics Workshop^{P,S}**, Urbana Champaign, IL, November 2014

Preferences for REDD+ Contract Attributes: Examples from Choice Experiments in Ethiopia and Nepal

- **Research Seminar**, Cornell University, Ithaca, NY, March 2016
- **Research Seminar**, University of Minnesota, St Paul, MN, October 2015
- **Association for Environmental and Resource Economics Annual Meeting**, San Diego, CA, June 2015
- **Northeastern Agricultural and Resource Economics Association Meeting**, Newport, RI, June 2015

- **Research Seminar**, Marquette University, Milwaukee WI, April 2015
- **Research Seminar**, Resources for the Future (RFF), Washington DC, October 2014
- **Research Seminar**, Reed College, Portland Oregon, July 2014

Using Microeconomics and Valuation for Policy Analysis: Preferences for REDD+ Contract Attributes:

- **Guest Lecture-ACE411- Environment and Development**, University of Illinois, October 2015
- **Guest Lecture**, Master of Development Practice Program, University of Peradeniya, Sri Lanka. Jan 2015
- **Guest Lecture-Environmental Economics**, Ohio Wesleyan University, Delaware, Ohio, October 2013

Public incentives for conservation easements on private land

- **Maine Economics Conference**, Newport, RI, , May 2015

Efficiency of Spatially Explicit Subsidies for Renewable Energy Generation

- **Heartland Environmental and Resource Workshop**, Urbana-Champaign, Illinois. November 2014
- **Western Economic Association Annual Meeting^S**, Seattle, Washington, July 2013

Preferences for Improved Cook Stoves: A Choice Experiment in Ethiopia

- **W3133 non-market valuation meeting**, Pensacola Beach, FL, February 2015
- **Policy Dissemination and Technical Workshop on REDD+**, Addis Ababa, Ethiopia, December 2014
- **Selected Presentation**, Environment for Development Annual Meeting, Tanzania, October 2014

The Opportunity Cost of Carbon Sequestration in Low-Income Countries and Preferences for REDD+ Contracts

- **Policy Dissemination and Technical Workshop on REDD+**, Addis Ababa, Ethiopia, December 2014
- **World Congress on Environmental and Resource Economics**, Istanbul, Turkey, July 2014
- **Selected Presentation**, Maine Economics Conference, Colby College, Waterville, ME. April 2014
- **Research Seminar**, Department of Economics, University of Maine, Orno, ME. April 2014
- **Selected Presentation**, Land and Poverty Conference, World Bank, Washington DC. February 2014
- **Research Seminar**, Department of Economics, University of New Hampshire, Durham, NH. October 2013
- **Selected Presentation**, Environment for Development Annual Meeting, South Africa, October 2013

The Economic Impact of Shale Gas Development^S

- **Northeastern Agricultural and Resource Economics Association Workshop**, Morgantown, WV, June 2014

Estimating WTP in WTP Space vs Preference Space – Examples from Three Case Studies

- **Northeastern Agricultural and Resource Economics Association Meeting**, Morgantown, WV, June 2014
- **W3133 non-market valuation meeting**, Orange Beach, AL, February 2014

The Economics of Conservation: How Economics Can Help Protect Biodiversity and Ecosystem Services.

- **Guest Lecture in Conservation Biology**, Portland State University, Portland OR, March 2018
- **Invited Presentation**, Department of Economics, Ohio Wesleyan University, Delaware, OH. October 2013
- **Guest Lecture in BI 131 – Biodiversity**, Colby College. Waterville ME. October 2013 & November 2014
- **Guest Lecture in ES 343 – Environmental Change**, Colby College. Waterville ME. September 2013 & 2012
- **Faculty of Arts Presentation**, Department of Economics, University of Peradeniya, Sri Lanka. Aug 2013
- **Guest Lecture**, Master of Development Practice Program, University of Peradeniya, Sri Lanka. Aug 2013
- **Faculty Noontime Lunch Talks at Colby College**, Waterville ME. October 2012
- **Guest Lecture for ISS IGERT Graduate Students**, Portland State University. Portland OR. October 2012.

Wetland Ecosystems and Mitigating External Costs in Hydroelectric Production: Market Based Instruments

- **Heartland Environmental and Resource Economics Workshop^P**, Urbana Champaign, IL, October 2012
- **Ecosystem Service Partnership Annual Meeting^{P,S}**, Portland, OR, October 2012

Valuing restoration: conservation tradeoffs and respondent experience in grassland restoration.

- **Institute for Sustainable Solutions Seminar Series^A**, Portland, OR. January 2012
- **EcoTrust^A**, Portland OR. January 2012.

- **Department Seminar^A**, Economics Department, Portland State University. January 2012
- **Heartland Environmental and Resource Economics Workshop^{P,A}**, Urbana Champaign, IL, October 2011
- **Agricultural and Applied Economics Association (AAEA) Annual Meeting^{†,A}**, Pittsburgh, PA, July 2011
- **AERE Inaugural Summer Conference^A**, Seattle, WA, June 2011
- **Midwest Grad Student Summit on Regional, Population, Health and Env (RPHE) Economics^A**, April 2010

Using STELLA Simulation Models to Teach Natural Resource Economics.

- **Northeastern Agricultural and Resource Economics Association Meeting**, Pittsburgh, PA, July 2011
- **AEA Conference on Teaching Economics and Research in Economic Education**, Palo Alto, CA, June 2011

Location Based Amenity Price Effects in Conservation Reserve Design: A Dynamic Model for Site Selection.

- **Southern Economic Association (SEA) Annual Meeting[†]**, Atlanta, GA, November, 2010
- **Agricultural and Applied Economics Association (AAEA) Annual Meeting[†]**, Denver CO, July 2010
- **World Congress of Environmental and Resource Economics (WCERE)**, Montreal, Canada, June 2010.
- **Heartland Environmental and Resource Economics Workshop^P**, Urbana-Champaign, IL, October 2009
- **ACE Research Celebration**; Second year PhD requirement. University of Illinois, October 2009.
- **Agricultural and Applied Economics Association (AAEA) Annual Meeting^P**, Milwaukee, WI, July 2009

Optimal Allocation of Land for Conservation: A GE Analysis.

- **Heartland Environmental and Resource Economics Workshop**, Urbana Champaign, IL, October 2010
- **Agricultural and Applied Economics Association (AAEA) Annual Meeting[‡]**, Denver CO, July 2010
- **Midwest Graduate Student Summit on Regional, Population and Health Economics**, April 2010.

Optimal Selection of Conservation Land within Military Installation: The Case of Ft. Benning & Ft. Stewart GA.

- **Heartland Environmental and Resource Economics Workshop^P**, Urbana Champaign, IL, October 2010
- **Agricultural and Applied Economics Association (AAEA) Annual Meeting^P**, Denver CO, July 2010

Optimum Selection of Clustered Conservation Areas for Species Relocation.

- **EAERE/FEEM/ Belpasso Summer School**, Belpasso, Italy, September 2010.
- **Invited presentation. Non-market valuation using conjoint analysis.**
- **Seminar** - Department of Agricultural Economics, University of Peradeniya, Peradeniya, Sri Lanka. January 2010.

Optimal Selection of Conservation Reserves: Extensions to Multiple Land Use and a Mechanism Design Approach.

- **Agricultural and Applied Economics Association (AAEA) Annual Meeting, Milwaukee WI**, July 2009.

National Security versus Environmental Stewardship: Optimum Selection of Conservation Reserves In and Around Military Installations. [†]

- **Midwest Graduate Student Summit on Regional, Population and Health Economics**, April, 2009.
- **Southern Economic Association (SEA) Annual Meeting**, Washington, DC, November 2008.
- **INFORMS Annual Conference[‡]**, San Diego, CA, November 2008.

Policy Briefs

- How Does Improved Stove Use Change Preferences? A Repeated Choice Experiment Survey in Ethiopia
- What do People Want from REDD+ Contracts: Costs and Benefits from a Choice Experiment in Ethiopia.

[†] AERE- Sponsored Session

^PPoster

[‡] Presented by Coauthor

^APresented under alternate title

Odds and Ends

The National Academies Gulf Research Program - *Early-Career Research Fellowship*

Designation - PI	PIAF#170241	Sept 2017 – August 2019	\$100,000	Not Awarded
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PSU Faculty Enhancement Grant, *Ecosystem Values from Forest Park, Portland Oregon*

Designation – PI		January 2018	\$15,000	Not Awarded
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Bergen County Academies Research Presentation

S. T. M. Dissanayake, S. Goonatilake, K. Herath, N. Perera, S. V. Vidanage. **Public/Private Partnerships for Ecosystem Restoration: An evaluation of cascade tank restoration by the HSBC Water Program and IUCN-Sri Lanka.**

CNCS-Community Conversations Research Competition - *Civic Infrastructure for Flooding Infrastructure*

Designation – Co-PI	PIAF#180408	Sept 2018 – August 2020	\$76,000	Not Awarded
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NSF - *Using Behavioral Economics to Combat Deforestation and Climate Change*

		Designation – Co-PI	PIAF#180738	March
2019 – Feb 2020	\$130,000	Not Awarded		

Media, News, and General Articles

C Beeke, S Dissanayake, J Price, M Adams. (2022). **Feeling the Heat: Climate Change is Becoming a Big Factor in Business Decision-making, Risk Assessment.** Interview. *Portland Business Journal*. Dec-23-2022.

R. Bluffstone and S. T. M. Dissanayake. (2019). **Opinion: Keeping climate bill alive benefits Oregon's economy and environment.** *The Oregonian*. Guest Columns June 25th 2019.

S. T. M. Dissanayake. (2018). **Conservation easements as a tool to implement REDD+.** *UN REDD Programme Newsletter*. 03-18.