

**Tanya M. Hayes**

Seattle University

Seattle, WA 98122

Ph: 206-296-5485

[hayest@seattleu.edu](mailto:hayest@seattleu.edu) |

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**EDUCATION**

- 2007 Ph.D. Public Policy, Joint doctorate in Political Science and Public and Environmental Affairs. Indiana University, Bloomington
- 2002 M.A. Urban and Regional Planning, University of California, Los Angeles
- 1995 B.A. Politics, Whitman College, Walla Walla, Washington

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**TEACHING AND RESEARCH AREAS**

Sustainable development, environmental governance, community resource management, policy and program evaluation, decision making and behavioral change.

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**PROFESSIONAL EXPERIENCE**

**Academic Positions**

- 2020-present **Professor**, Department of Public Affairs & Nonprofit Leadership, Seattle University
- 2013-2020 **Associate Professor**, Institute for Public Service and Environmental Studies program, Seattle University
- 2007-2013 **Assistant Professor**, Institute of Public Service and Environmental Studies, Seattle University
- 2006-2007 **Visiting Professor**, Institute of Public Service and Environmental Studies, Seattle University

**University Leadership Positions**

- 2026-present **Chair**, Department of Environment and Sustainability
- 2026-present **Academic Director**, Institute for Environmental Justice and Sustainability
- 2024-2026 **Provost Fellow**, Center for Environmental Justice and Sustainability
- 2022-present **Co-Chair**, University Laudato si' Action Platform Commitment for Academics.
- 2022-2024 **Provost Fellow**, Reimagining our Curriculum Sustainability and Climate Change
- 2020-2026 **Chair**, Department of Public Affairs and Nonprofit Leadership (previously Institute of Public Service), Seattle University
- 2017-2026 **Director**, Environmental Studies program, Seattle University

2013-2017     **Director**, Public Affairs program, Institute of Public Service, Seattle University

### **Additional Professional Experience**

2014            **Consultant**, World Agro-forestry Centre, Institutional mapping of natural resource governance systems in Sentinel Landscape Project: Peru, Bolivia, Brazil.

2006-2015     **Research Associate**, Center for the Study of Institutions, Population and Environmental Change (CIPEC), Indiana University

1998-1999     **Volunteer Coordinator**, Peace Corps, Panama

1996-1998     **Agro-Forestry Extension Agent**, Peace Corps, Panama

### **RESEARCH GRANTS AND AWARDS**

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2025     **Tinker Foundation Institutional Grant for Sustainable Resource Management.** “Enhancing Rural Water Management Network in Colombia and Costa Rica” (Co-PI) \$324,000

2025     **Institute for Catholic Thought and Culture Research Grant**, Seattle University. “Scaling Up Community Water Management in Colombia to Address Climatic and Socioeconomic Threats to Drinking Water” (PI) \$10,000.

2017     **National Sciences Foundation** (SES1734051) “RUI: What happens when payments stop? Collective resource management under the rise and fall of payment for environmental services” (PI) \$496,164

2012     **National Science Foundation** (SES 1156271): “RUI: Influence of Economic Incentives on Common-Property Forest Management: Rural Decision Making in the Context of REDD+” (PI) \$450,000

2011     **Summer Faculty Fellowship**, College of Arts & Sciences, Seattle University: “Assessment of the Social and Ecological Impacts of Payments for Forest Conservation in Peasant Communities, Ecuadorian Andes” (PI) \$7,000

2011     **Global Engagement Fellowship**, Seattle University: “Student Service-Learning Research Opportunity: Payments for Forest Conservation in Peasant Communities in the Ecuadorian Andes” (PI) \$9,500

2010     **Provost’s Summer Faculty Fellowship**, Seattle University: “Assessment of Incentives for Sustainable Farming in the Colombian Andes” (PI) \$5,000.

2009     **Endowed Mission Fund Fellowship**, Seattle University: \$3,000

2005     **National Science Foundation** (DMRS), Doctoral Dissertation Research Improvement Grant. \$11,000.

2005     **IIE Fulbright Fellowship**. Award for research and study in Honduras.

### **PUBLICATIONS**

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#### **Peer-Reviewed Publications**

2025     **Hayes, T. Murtinho, F., Basurto, X. & Grillos, T.** How rules shape participation in

- communal resource management decisions: The institutional analysis and development framework as a tool to assess inclusive decision-making. *Conservation Science and Practice*, e70206.
- 2025 Jones, G. Thompson, C. Sawyer, K. Norman, K. Parks, S., **Hayes, T.** Hanskins, D. Conserving landscape dynamics, not just landscapes. *BioScience* 75(5), 409-415.
- 2024 Ezzine-de-Blas, D., **Hayes, T.**, Corbera, E., & Avila-Foucat, V. S. (2024). Looking back to shape the future: Trajectories and resilience of social–ecological systems in the Global South in Special Issue. *Ambio*, 1-7.
- 2023 **Hayes, T.**, & Murtinho, F. Diagnosing Participation and Inclusion in Collective Decision-Making in the Commons: Lessons from Ecuador. *International Journal of the Commons*, 17(1).
- 2022 Villamayor-Tomas, S., Hermann, A., van der Lingen, L., & **Hayes, T.** Community-based water markets and collective payment for ecosystem services: toward a theory of community-based environmental markets. *Current Opinion in Environmental Sustainability*, 59, 101221.
- 2022 **Hayes, T.**, Murtinho, F., Wolff, H., López-Sandoval, M. F., & Salazar, J. Effectiveness of payment for ecosystem services after loss and uncertainty of compensation. *Nature Sustainability*, 5(1), 81-88.
- 2019 **Hayes, T.**, Grillos, T., Bremer, L. L., Murtinho, F., & Shapiro, E.. Collective PES: More than the sum of individual incentives. *Environmental Science & Policy*, 102, 1-8.
- 2018 **Hayes, T.M** and Murtinho, F. Communal governance, equity and payment for ecosystem services. *Land Use Policy* 79:123-136.
- 2017 Murtinho, F., **Hayes, T.M.** Communal participating in payment for environmental services (PES): Unpacking the decision to enroll. *Environmental Management* 59(6) 939-955.
- 2017 **Hayes, T.M.**, Murtinho, F. and Wolff, H. The impact of payments for environmental services on communal lands: An analysis of the factors driving household land-use behavior in Ecuador. *World Development*. 93: 427-446. <http://dx.doi.org/10.1016/j.worlddev.2017.01.003>
- 2015 **Hayes, T.M.**, Murtinho, F. and Wolff, H. (2015) An institutional analysis of Payment for Environmental Services on collectively managed lands in Ecuador. *Ecological Economics* 118: 81-89.
- 2015 **Hayes, T.M.** Murtinho, F. Cardenas Camacho, L.M. Crespo, P, McHugh, S., Salmeron, D. Can conservation contracts co-exist with change? Payment for ecosystem services in the context of adaptive decision-making and sustainability. *Environmental Management*. Online Oct 2014. DOI: 10.1007/s00267-014-0380-1
- 2013 Murtinho, F., Eakin, H., Lopez-Carr, D. and **Hayes, T.M.** “Does External Funding Help Adaptation? Evidence from Community-Based Water Management in the Colombian Andes. *Environmental Management* 52(1103-1114).
- 2012 **Hayes, T.M.** Payment for Ecosystem Services, Sustained Behavioral Change, and Adaptive Management: Peasant Perspectives in the Colombian Andes. *Environmental Conservation* 39(2), 144-153.

- 2012 Murtinho, F, & **Hayes, T.M.** Adaptation in Resource-Dependent Communities: A Call for Greater Methodological Clarity in Adaptation Field Research. *Society & Natural Resources Journal* 25: 513-522.
- 2010 **Hayes, T.M.** and Persha, L. “Nesting Local Forestry Initiatives: Revisiting community forest management in a REDD+ world.” *Forest Policy and Economics* 12: 545-553.
- 2010 Dressler, W., Büscher, B., Schoon, M., Brockington, D. **Hayes, T.** Kull, C., McCarthy, J. and Streshta, K. From hope to crisis and back again? A critical history of the global CBNRM narrative. *Environmental Conservation*, 37(01), 5-15.
- 2009 **Hayes, T. M.** “A Challenge for Environmental Governance: Institutional Change in a Traditional Common-Property Forest System.” *Policy Sciences* 43(1) 27-48.
- 2008 **Hayes, T.M.**, and Murtinho, F. “Are Indigenous Forest Reserves Sustainable? An analysis of present and future land-use trends in Bosawas, Nicaragua” *Journal of Sustainable Development and World Ecology* 15(6): 497-511.
- 2008 **Hayes, T.M.** “The Robustness of Indigenous Common-Property Systems to Frontier Expansion: Institutional Interplay in the Mosquitia” *Conservation and Society* (6)2: 117-129.
- 2007 **Hayes, T. M.** “Controlling Agricultural Expansion in the Mosquitia: Does Tenure Matter?” *Human Ecology* (35)6.
- 2006 **Hayes, T.M.** “Parks, People, and Forest Protection: An Institutional Assessment of the Effectiveness of Protected Areas” *World Development* (34)12: 2064-2075.
- 2005 **Hayes, T.M.** and Ostrom, E. “Conserving the World’s Forests: Are Protected Areas The Only Way?” *Indiana Law Review* (38)3: 595-617.

### **Book Chapters**

- 2025 **Hayes, T.**, & Murtinho, F., Using the Institutional Analysis and Development (IAD) framework to link collective action, behavioral change and social-environmental outcomes in conservation policy. In F. Nunan (Ed.), *Researching Institutions in Natural Resource Governance: Methods and Frameworks* (pp. 17-36). Taylor and Francis.
- 2011 **Hayes, T.M** “Direct Rent Capture in Context of Weak Institutions” In *Environment, Climate Change and Land Policies*. Lincoln Institute: Cambridge, MA.

### **Papers submitted and under review**

- 2025 Villamayor-Tomas, S. **Hayes, T.**, Epstein, G. *et al.* Community-based Environmental markets (CBEMs): a review of hybrid regimes for natural resource governance. Submitted to *Science Advances*, Feb 2025.

### **Selected Consulting Reports & other Publications**

- 2022 **Hayes, T.**, F. Murtinho, MF Lopez. Incentivos para la conservación: ¿una herramienta que apoya el manejo comunitario sostenido de recursos naturales? Lecciones del Programa Socio Páramo en el Ecuador. Quito, Ecuador: Manthra publications
- 2015 Freguine-Gresh, S. PM., Aubert, T. **Hayes**, Pesche, D. Lessons from institutional analysis conducted in three Sentinel Landscapes. Technical report prepared for CGIAR.
- 2015 **Hayes, T.** F. Murtinho and M. Bustamante. Participación comunitaria y conservación de páramo en la sierra ecuatoriana Technical Report prepared for Socio Bosque -

- Environmental Department of Ecuador. Quito, Ecuador
- 2014 **Hayes, T.** Institutional Mapping in the Western Amazon: Research framework and data gathering guide. Presented for CGIAR Sentinel Landscapes Peru, Bolivia, Brazil.
- 2010 **Hayes, T.** “Características Principales de los Participantes del Programa Silvopastoril FN-CIPAV” Technical report prepared for Fundación Natura, Bogotá, Colombia August 2010.
- 2006 **Hayes T.** “Análisis de la Expansión Agrícola en Miskitu Indian Tasbaika Kum, Bosawas, Nicaragua” Technical report prepared for Miskitu association ADEPCIMISUJIN and Centro Humboldt, Managua, Nicaragua, March 2006.
- 2006 **Hayes, T.** “Resumen Comunitario de Banaka: La Expansión Agrícola en el Río Plátano” Technical report prepared for community of Banaka and MOPAWI, Raista, Honduras, February 2006.
- 2005 **Hayes, T.** “Análisis de los Vínculos entre los Derechos de Propiedad y la Conservación: Lecciones de la Biosfera Río Plátano, Honduras y la Biosfera BOSAWAS, Nicaragua” Technical report prepared for The Nature Conservancy, Tegucigalpa, Honduras, November 2005.

## PROFESSIONAL PRESENTATIONS

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### Invited Presentations & Workshops

- 2025 **Hayes, T.** “Collective Resource management under the rise and fall of Payment for Environmental Services (PE): Evidence from the Ecuadorian Andes.” Presented as an invited participant in the workshop at Navigating Implementation Challenges in Payments for Ecosystem Services Programs, March 406, Selva Lacandona, Chiapas, Mexico.
- 2023 **Hayes, T** and F. Murtinho (2023) “Participation and Inclusion in Community Resource management: Lessons from Ecuador.” Presented as part of OSP Lightening talks fall series (November 16, 2023).
- 2023 **Hayes, T** and F. Murtinho “La gobernanza de los sistemas socio-ecológicos en América Latina ¿Cómo promover la acción colectiva para el manejo sostenible y justo?” Invited presentation to Central American Center for Tropical Agriculture and the Environment (CATIE), May 18, 2023.
- 2019 **Hayes, T.** “Adapting the Social-Ecological Services and Institutional Analysis and Development frameworks to assess payment for ecosystem services: the challenges of digging down while building out.” Invited presentation as part of roundtable discussion on “The IAD Framework: Taking stock and looking ahead” at the International Association for the Study of the Commons 17<sup>th</sup> International Conference, Lima, Peru, July 1-5, 2019.
- 2019 **Hayes, T.** Investigación siguiendo el marco teórico de análisis institucional (IAD) para el desarrollo sostenible en áreas rurales. Three-day methods workshop for graduate students and professors from different sectors of Bolivia. Workshop held at, and sponsored by, the Instituto de Investigaciones Socio-Económicas Universidad Católica de Bolivia "San Pablo" La Paz. July 30-August 1.
- 2018 **Hayes, T.** Environmental Conservation in Latin America: Policies, program and their social justice implications. Key note speaker at Seattle Pacific University Colloquium on Environmental Justice, October, 5.

- 2017 **Hayes, T.** and F. Murtinho. Investigación siguiendo el marco teórico de análisis institucional de Ostrom (“Bloomington School”). Presented at Facultad Latinoamericana de Ciencias Sociales (FLACSO), Quito, Ecuador, July 13.
- 2017 **Hayes, T.** Política, comunidades y conservación. Workshop on research methods for examining governance of common-property resource arrangements presented for faculty of Bluefields Indian and Caribbean University (BICU), Puerto Cabezas, Nicaragua, August 2-3.
- 2016 **Hayes, T.** and F. Murtinho. La gobernanza de los sistemas socio-ecológicos en América Latina. Presented at Facultad Latinoamericana de Ciencias Sociales (FLACSO), Quito, Ecuador, July 14.
- 2016 **Hayes, T.** Políticas, comunidades y conservación. Análisis de sostenibilidad y gobernanza de recursos de uso común en América Latina. Presented at Universidad CentroAmericana (UCA), Managua, Nicaragua, April 26.
- 2016 **Hayes, T.** Análisis Institucional: Evaluación de las políticas de manejo de recursos naturales en comunidades rurales. Presented at Nitlapan, Universidad CentroAmericana (UCA), Managua, Nicaragua, April 25.
- 2015 **Hayes, T.** and F. Murtinho. Programa Socio Páramo en Territorios Colectivos. Impactos Institucionales y de Uso del Suelo. Presented at Facultad Latinoamericana de Ciencias Sociales (FLACSO), Quito, Ecuador, July 10.
- 2014 **Hayes, T.** Institutional Analysis of Western Amazon. Presented at CGIAR/CIRAD workshop on institutional mapping, CIRAD, Montpellier, France, December 2.
- 2014 **Hayes, T.** Mapeo Institucional para los Paisajes Centinelas. Methods workshop, Puerto Maldonado, Peru, August 4-9.
- 2014 **Hayes, T.** and F. Murtinho. Participación comunitaria y conservación de páramo en la Sierra Ecuatoriana. Invited by Ecuadorian Ministry of Environment. July 2014, Banos, Ecuador.
- 2013 **Hayes, T.** Mapeo Institucional para entender la gobernanza de bosques y paisajes. Presented at ICRAF, Lima, Peru, November 12.
- 2012 **Hayes, T.** “Local Forest Governance: Constructing Conservation Incentives that Fit the Context.” Paper presented to Gordon and Betty Moore Foundation collaborative workshop, Governance and conservation: Toward more robust indicators, Palo Alto, April 24-26.
- 2010 **Hayes, T. M.** “Manejo de Bosques en America Latina: Looking for Institutional Fit” Conference on the Commons. Universidad Javeriana, Facultad de Estudios Ambientales y Rurales. Bogotá, Colombia, July 28-29.
- 2010 **Hayes, T.M** “Direct Rent Capture in Context of Weak Institutions” Invited comments on John Dixon’s paper “Capturing Economic Rents to pay for Conservation of Sensitive Sites”. Comments presented at Lincoln Land Institute 5<sup>th</sup> Annual Land Policy Conference, The Environment, Climate Change and Land Policies. Cambridge, MA, May 23-25.
- 2008 **Hayes, T.M** “Lessons from the Field: Analyzing the Impact of Property Rights on Forest Management in Mosquitia Forest Corridor”. Paper presented at Seattle University Globalization and Justice: Interdisciplinary Dialogues, February 21-22, 2008.

### **Paper Presentations at Academic Conferences**

- 2024 **Hayes, T.** and F. Murtinho. Use of the IAD framework to identify micro-governance mechanisms in support of inclusive decision-making in the commons: a diagnostic review.

- Paper presented at Workshop on the Workshop (WOW) 7, Bloomington, IN, June 18-21, 2024.
- 2023 **Hayes, T** and F. Murtinho. “Local Governance Conditions in support of Inclusive Decision-Making in the Commons: A review of empirical studies. International Association for the Study of the Commons (IASC), Nairobi, Kenya June 19-24.
2021. **Hayes, T.** and F. Murtinho. “Diagnosing Participation and Inclusion in Collective Decision-Making in the Commons.” presented in Spanish at IASC Latin American virtual conference, June 1-4, 2021.
- 2019 **Hayes, T.M.** Lopez, M.F., Murtinho, F. and Salazar, J. “Putting Payment for Ecosystem Services (PES) in the context of broader land-use dynamics.” Presented at International Association for the Study of the Commons 17<sup>th</sup> International Conference, Lima, Peru, July 1-5, 2019.
- 2019 Murtinho, F. and **Hayes, T.M.** Collective resource management under the rise and fall of Payment for Environmental Services (PES) Presented at International Association for the Study of the Commons 17<sup>th</sup> International Conference, Lima, Peru, July 1-5, 2019.
- 2018 **Hayes, T.M.** and F. Murtinho. PES in the Commons: Assessing Behavioral and Social-Institutional Impacts. Presented at International Association for the Study of the Commons (IASC) Workshop: Working Together on the Commons, Tempe AZ, March 8-9.
- 2017 **Hayes T.M** and F. Murtinho. What is the role of communal governance in the implementation of PES? Presented at International Congress for Conservation Biology. Cartagena, Colombia, July, 2017.
- 2016 **Hayes, T.M.** “Do payments matter? The impact of Payment for Environmental Services on household behavior in the context of collective resource management in the Ecuadorian Andes.” Paper presented at Midwest Political Science Association, Chicago, April 2016.
- 2016 Benavides, JP., V. Robiglio, **T. Hayes.** “A Meta-analysis to identify patterns between livelihood outcomes and trees” Edenborough: Forests & Livelihoods (FLARE), December 2016
- 2015 **Hayes T.M.** and F. Murtinho “Do economic incentives drive collective behavior to govern the commons? An assessment of Ecuador’s Socio Bosque program” presented at Conference for the International Association for the Study of the Commons, 15<sup>th</sup> Biennial Global Conference, Edmonton, Alberta May, 2015
- 2014 **Hayes, T. M.** “The Challenge of Creating Process Oriented Indicators for Sustainability” Paper presented at Workshop on the Workshop in Political Theory and Policy Analysis, Bloomington, IN, June 12-15.
- 2013 **Hayes, T.M.** “Behavior beyond Economics: Payment for Ecosystem Services in the context of rural decision-making and sustainable forest management in South America.” Paper presented at the American Association for Geographers (AAG), Los Angeles, CA, April 9-13.
- 2010 **Hayes, T.M** “Are Contingent Contracts a Viable Policy Tool for Forest Management in Agro-ecological Landscapes? Lessons from the East Andes, Colombia.” Paper presented at International Association for the Study of the Commons (IASC) North American conference, Tempe, Arizona, September 30-October 3.
- 2009 **Hayes, T.M.** “Forest Management in Latin America: Looking for Institutional Fit.” Paper

- presented at the Conference on Human Dimensions of Global Environmental Change, Amsterdam, The Netherlands, December 2-4, 2009.
- 2009 **Hayes, T.M.** and Persha, L. "Policy Insights for Community Forestry: Lessons from a comparative analysis of forest management in Honduras, Nicaragua & Tanzania." Paper presented at Workshop on the Workshop, Bloomington, Indiana June 4-10, 2009.
- 2008 **Hayes, T. M.** "Analyzing Institutional Change in Traditional Common Property Forest Governance Systems." Paper presented at the biannual Conference of the International Association of the Commons, Cheltenham, England, July 14-19, 2008.
- 2008 Murtinho, F. and **Hayes, T.M.** "Insights from the Field for Measuring and Analyzing Adaptation Processes in Common-Pool Resource Management" 25 pages. London: Conference of the International Association of the Commons, July 14-19, 2008.
- 2007 **Hayes, T. M.** "How can Environmental Policy Shape Indigenous Responses to Democratic and Market Change: An analysis of the ability to control agricultural expansion in the Mosquitia Forests of Honduras and Nicaragua". Paper presented at the annual convention of the International Studies Association, Chicago, February 28-March 3, 2007.
- 2006 **Hayes, T. M.** "Controlling Agricultural Expansion in the Mosquitia: Does Tenure Matter?" Paper presented at the annual conference of the Latin American Studies Association, San Juan, Puerto Rico, March 15-18, 2006.
- 2005 **Hayes, T. M.** "Conserving the World's Forests: Are Protected Areas the Only Way?" Paper presented at the annual conference of the American Anthropological Association, Washington, D.C., November 30-December 4, 2005.

## SERVICE

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### Service to University & College of Arts & Sciences

- 2023 – 2024 Planning Committee for Seattle University and Archdiocese of Seattle Summit on Climate Action
- 2022 – 2025 University Rank and Tenure Committee
- 2020-2022 Center for Environmental Justice and Sustainability Faculty Advisor to student research fellows.
- 2019 Undergraduate Research on NSF project. Trained 4 students to conduct research in Ecuador for summer 2019.
- 2017-2022 President's Committee for Sustainability (member)
- 2016 CETL Panelist for session on conducting research with students
- 2015-2018 College of Arts and Sciences, Ranks and Tenure Committee
- 2015-2020 Faculty reviewer of Fulbright proposals
- 2014 Undergraduate Research on NSF project. Trained 3 students to conduct research in Ecuador for summer 2014.
- 2013-2019 Proposal Writing Workshop for Fulbright Applicants (yearly), Office of Fellowships.
- 2014 Book discussant for New Student Convocation
- 2013 Roundtable discussant for Global Engagement Panel
- 2012 Book discussant for New Student Convocation

- 2012 Presentation on undergraduate scholarship for College of Arts & Sciences donor breakfast
- 2012 Guest Speaker, Just Serve retreat for Garfield High school Students, April 14, 2012
- 2011-2012 Mentor of National Council of Undergraduate Research (NCUR) project
- 2011 Undergraduate research in Ecuador (mentored 2 students)
- 2011 Guest Speaker, Oxfam Hunger Banquet, March 7, 2011
- 2011 Book discussant for New Student Convocation
- 2010-present Faculty representative for Udall Scholarship and environmentally-related fellowship opportunities.
- 2010-2011 Participant in Justice Seminar on Duwamish River
- 2010 Exploration of collaboration possibilities with faculty at University of Javeriana, Bogota in support of Seattle University Twinning Agreement between the Jesuits of the Provinces of Oregon and Colombia
- 2010 Western Conversations Jesuit Universities Seminar on Sustainability, Santa Clara, CA, Oct 22-24, 2010.
- 2009 Workshop Instructor, "Building Collaborative Partnerships in Conservation". As part of student-organized inter-collegiate conference, Collaborating for Sustainability: Empowering Students for New Generation, March 2009.
- 2008-2012 Faculty Advisor, Friends of Nicaragua student group
- 2007-2009 University Environmental Advisory Committee member

### **Service to External Communities**

- 2018 Faculty mentor to high school student participating in Central Sound Regional Science and Engineering Fair.
- 2014 Presentations of project findings "Participación Comunitaria y Conservación de Páramo en la Sierra Ecuatoriana" to three international and two national (Ecuadorian) NGOs.
- 2014 Community-workshops in 12 Andean communities on ecotourism and their páramo management
- 2014 Presentation of Preliminary Findings to Socio Bosque
- 2010 Program evaluation of Payment for Ecosystem Services program to NGO Fundación Natura
- 2009 Report to Colombian Regional Environmental Authority (CAR) on forest use in Robledal Forest Reserve
- 2008 Program evaluation of protected area management plan for Honduran Ministry of Forestry and The Nature Conservancy
- 2006 Provision of land-cover change maps of indigenous territories in Rio Plátano and Bosawas to indigenous communities in Mosquitia Coast, Honduras and Nicaragua

### **Service to Professional Field**

- 2023 Co-Editor, Special Issue for Ambio journal. Special Issue: Looking Back to Cope with the Future: Trajectories and resilience of social-ecological systems in the Global South (2023-2024).
- 2019 Panel organizer. "Understanding local outcomes of conservation initiatives in the context of multi-level social, economic and environmental change" for XVII Biennial IASC Conference, Lima, Peru July 1-5.

- 2019 Panel co-organizer with Driss Ezzine de Blas. “Payment for Environmental Services and collective action: Theoretical insights & empirical evidence of effects, impacts and interactions” for XVII Biennial IASC Conference, Lima, Peru July 1-5.
- 2018 Panel co-organizer with Kathleen Farley. “Assessing the Social Implications of Payment for Ecosystem Services (PES) in the Commons” working group at IASC Workshop: ‘Working Together on the Commons’, Tempe AZ, March 8-9.
- 2014 Panel co-organizer with Lauren Persha. “Empirical Assessment of Complex Social-Ecological Systems: Methodological frontiers for measuring complexity and change in sustainable resource management” working group at fifth ‘Workshop on the Ostrom Workshop’ (WOW 5), Indiana University, Bloomington June 18-21.
- 2014 Discussant, “Institutions, Behavior, and Policy Outcomes” at fifth ‘Workshop on the Ostrom Workshop’ (WOW 5), Indiana University, Bloomington June 18-21.
- 2010 Discussant, “Direct Rent Capture in the Context of Weak Institutions” by John Dixon. Presented at Lincoln Land Institute Conference on the Environmental, Climate Change and Land Policies, Lincoln Institute of Land Policy, Cambridge, MA, May 24-25.

### **External Reviewer**

#### ***Grant Proposals:***

National Science Foundation; 3ie International Initiative for Impact Evaluation; Research Foundation Flanders (FWO)

***Undergraduate Research:*** NCUR proceedings reviewer

#### ***Manuscript Reviewer for Journals:***

|                                  |                                                             |
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| Conservation and Society         | International Journal of the Commons                        |
| Conservation Letters             | Journal of Latin American Geography                         |
| Ecological Economics             | Journal of Environmental Planning & Management              |
| Environmental Conservation       | Land Use Policy                                             |
| Environmental Science and Policy | Nature sustainability                                       |
| Human Ecology                    | Proceedings for the National Academy of the Sciences (PNAS) |
| Forest Policy and Economics      | Policy Studies Journal                                      |
| Forest Research                  | Society and Natural Resources                               |
| Forests                          | United Nations Natural Resource Forum                       |
| Geoforum                         | World Development                                           |