

## FELIPE MURTINHO

Associate Professor

International Studies, Institute of Public Service & Environmental Studies

Seattle University

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### EDUCATION

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2011 **Ph.D. University California Santa Barbara**

Field of study: Geography (Human-Environment Relations)

Dissertation Title: *Adaptation in Watershed Management among Andean Rural Communities*

Committee: Hallie Eakin, David Lopez-Carr, Christina Tague and Elinor Ostrom

2001 **M.A. Universidad de los Andes (Colombia) and University of Maryland (USA)**

Field of study: Environmental and Natural Resources Economics

2000 **B.A. Universidad de los Andes (Bogotá, Colombia)**

Field of study: Economics

Minors in History and Latin American Studies

### PROFESSIONAL EXPERIENCE

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2020-Present **Director**, International Studies, Seattle University

2018-Present **Associate Professor**, International Studies & Institute of Public Service, Seattle University

2013-Present **Affiliated Faculty**, Environmental Studies, Seattle University

2013-2018 **Assistant Professor**, International Studies & Institute of Public Service, Seattle University

2011-2013 **Instructor**, Institute of Public Service, Seattle University

2010-2011 **Adjunct**, Institute of Public Service & Environmental Studies, Seattle University

2010 **Consultant**, CONDESAN, Ecuador

2006-2008 **Research & Teaching Assistant**, Geography, University California Santa Barbara

2006 **Consultant**, Research Institute Alexander von Humboldt. Bogotá, Colombia

2001-2005 **Research Associate**, Research Institute Alexander von Humboldt. Bogotá, Colombia

## PUBLICATIONS

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### Peer-Reviewed Articles

- 2021 Hayes, TM, **F. Murtinho**, H. Wolff, MF. Lopez-Sandoval, and J. Salazar. Effectiveness of payment for ecosystem services after loss and uncertainty of compensation. *Nature Sustainability*, 5 (1), 81-88
- 2019 Hayes, TM, T. Grillos, L. Bremer, **F. Murtinho**, and E. Shapiro. Collective PES: More than the sum of individual incentives. *Environmental Science & Policy*, 102, 1-8.
- 2018 Hayes, TM, **F. Murtinho**. Communal governance, equity and payment for ecosystem services. *Land Use Policy*, 79, 123-136
- 2018 Quiroz, C, P. Crespo, B. Stimm, **F. Murtinho**, M. Weber, and P. Hildebrandt. Contrasting stakeholders' perceptions of Pine Plantations in the Páramo ecosystem of Ecuador. *Sustainability*, 10(6), 1-23.
- 2017 **Murtinho, F.** and TM Hayes. Communal Participation in Payment for Environmental Services (PES): Unpacking the Collective Decision to Enroll. *Environmental Management*, 59(6), 939-955.
- 2017 Hayes, TM, **F. Murtinho** and H. Wolf. 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.
- 2016 **Murtinho, F.** What facilitates adaptation? An analysis of community-based adaptation to environmental change in the Andes. *International Journal of the Commons*, 10 (1), 119-141
- 2015 Hayes, TM, **F. Murtinho** and H. Wolf. An Institutional analysis of Payment for Environmental Services on collectively managed lands in Ecuador. *Ecological Economics*, 118, 81-89.
- 2015 Hayes, TM, **F. Murtinho**, L. Cardenas, P. Crespo, S. McHugh and D. Salmeron. Can Conservation Contracts Co-Exist with Change? Payment for Ecosystem Services in the Context of Adaptive Decision-Making and Sustainability. *Environmental Management*, 55 (1), 69-85.
- 2013 **Murtinho, F.**, H. Eakin, D. Lopez-Carr and TM. Hayes. Does external funding help or hinder adaptation? Evidence from community-based water management in the Colombian Andes. *Environmental Management*, 52 (5), 1103-1114.
- 2013 **Murtinho, F.**, C. Tague, B. de Bievre, H. Eakin and D. Lopez-Carr. Water scarcity in the Andes: contrasting climate, land use and socioeconomic changes to local perceptions. *Human Ecology*, 41 (5), 667-681.
- 2012 **Murtinho, F.** and TM. Hayes. Adaptation in resource-dependent communities: A call for greater methodological clarity in adaptation field research. *Society & Natural Resources Journal* 25 (5), 513-522.
- 2010 Eakin, H, A. Lerner and **F. Murtinho**. Adaptive capacity in evolving peri-urban spaces: Responses to flood risk in the Upper Lerma River Valley, Mexico. *Global Environmental Change-Human and Policy Dimensions*, 20 (1), 14-22.
- 2008 Carr, DL, **F. Murtinho**, W. Pan, A. Barbieri, R. Bilsborrow, C. Suchindran, and T. Whitmore. Un análisis multi-nivel de población y deforestación en el Parque Nacional Sierra

- de Lacandón, Petén, Guatemala. Documents d'analisi Geografica, 52, 49-67.
- 2008 Hayes, TM. and **F. Murtinho**. Are indigenous forest reserves sustainable? An analysis of present and future land-use trends in Bosawas, Nicaragua. International Journal of Sustainable Development & World Ecology, 15 (6), 497-511.

### **Invited Peer-Reviewed Book Chapters**

- 2014 **Murtinho, F.** Proteccion de Ecosistemas y Manejo de Agua: Experiencias Comunitarias en los Andes de Colombia. In Cuesta, F., J. Sevink, LD Llambi, B. de Bievre and J. Posner (eds.). Avances en investigación para la conservación de los Páramos Andinos (pp. 225-244). CONDESAN, Lima, Perú.
- 2013 **Murtinho, F.** Estrategias de las Juntas Administradoras de Agua para materializar su seguridad hídrica en los Andes Colombianos. In Hoogesteger, J. and Urteaga, P. (eds). Agua e Inequidad: Discursos, políticas y medios de vida en la región andina (pp. 117-138). Instituto de Estudios Peruanos (IEP), Lima, Perú.
- 2012 De Bievre, B., M. Bustamante, W. Buytaert, **F. Murtinho**, MT Armijos. Síntesis de los impactos de los efectos del cambio climático en los recursos hídricos en los Andes Tropicales y las estrategias de adaptación desarrollada por los pobladores. In Cuesta F. et al. (eds). Panorama andino de cambio climático: Vulnerabilidad y adaptación en los Andes Tropicales y Mitigación de los Efectos del Cambio Climático en los Andes Tropicales (pp. 65-107) CONDESAN, SGCAN, Lima, Perú.

### **Articles in Progress**

Hayes, TM and **F. Murtinho**. Diagnosing Participation and Inclusion in Collective Decision-Making in the Commons: Lesson from Ecuador.

### **Other Publications**

- 2022 Hayes, T. **F. Murtinho** and M.F. Lopez. Incentivos para la conservación: ¿una herramienta que apoya el manejo comunitario sostenido de recursos naturales? Technical Report prepared for Environmental Department of Ecuador. Quito, Ecuador. ISBN: 978-9942-836-09-0
- 2014 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
- 2011 Association of American Geographers. Climate Change and Hazards in the Americas. International Interdisciplinary Research Directions and Opportunities. Association American Geographers, Washington D.C.
- 2004 Arango, D, X. Murillo, S. Hernández, C. Ruíz, N. Vargas, **F. Murtinho**. Manejo local y participativo de la micro-cuenca de Chaina, Boyacá. Instituto Humboldt. Bogotá, Colombia.

## **PROFESIONAL PRESENTATIONS**

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### **Guest speaker**

- 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.
- 2016 **Murtinho, F.** Do payments matter? The impact of Payment for Environmental Services on Communal Lands. Presented at the School of Interdisciplinary Arts and Sciences, University of Washington, Bothell. November 1.
- 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.
- 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.

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

- 2019 Murtinho, F Collective resource management under the rise and fall of Payment for Environmental Services (PES). Presented at the Global Conference of the International Association for the Study of the Commons. Lima, Peru, July 1-5.
- 2018 Murtinho, F. and Hayes, T. PES in the Commons: Assessing Behavior and Social-Institutional impacts in Ecuador. Presented at International Association for the Study of The Commons Workshop. Tempe, AZ, March 9.
- 2017 Murtinho, F. and Hayes, T. Equity and Fairness: An assessment of communal Payments for Environmental Services (PES) in Ecuador. Presented at International Congress for Conservation Biology. Cartagena, Colombia, July 24.
- 2016 Murtinho, F. Economic incentives, perceived equity and behavioral change in collectively-managed lands. Presented at AAG Annual Conference. Panel “Beyond Neoliberal Natures -- The Reworking of Payments for Ecosystem Services (PES) on the Ground: Equity and Values”. San Francisco, April 1.
- 2015 Murtinho, F. and Hayes, T. Payment for Ecosystem Services in the Commons: Who Participates? Presented at the Global Conference of the International Association for the Study of the Commons. Edmonton, Canada, May 25-29.
- 2014 Murtinho, F. and Hayes, TM. Payment for Ecosystem Services: Evidence from the Ecuadorian Andes. Presented at Center for Environmental Justice and Sustainability. Seattle University, May 14.
- 2014 Murtinho, F. and Hayes, TM. Collective Decision-Making to Participate in Payment for Ecosystem Services Programs: Evidence from the Ecuadorian Andes. Presented at the AAG Annual Conference. Panel "Paths toward Sustainable Payments for Ecosystem Services". Tampa, FL. April 7-11.
- 2011 Murtinho, F., C. Tague, and D. L. Carr. Water scarcity in the Andes: contrasting climate, land use and socioeconomic changes to local perceptions. Presented at the AAG Annual Conference. Panel "Socio-Cultural Dimensions of Climate Change". Seattle WA. April 12-16.
- 2010 Murtinho, F., H. Eakin and D. Lopez-Carr. Is External Assistance Needed for Adaptation? An Assessment of Government Intervention in Local Water Management in the Colombian Andes. Presented at the North American Regional Meeting of the International Association

for the Study of the Commons Conference. Tempe, AZ, October 1. Available at:

<http://dlc.dlib.indiana.edu/dlc>

- 2010 Murtinho, F., H. Eakin and D. Lopez-Carr. At what scale are local adaptation processes triggered? Evidence from watershed management in the Andes of Colombia. Presented at Association of American Geographers Annual Conference. Panel: Climate Adaptation, Landscapes, and Institutions. Washington D.C. April 14-18
- 2010 Murtinho, F. Understanding Adaptation to Climate Variability: Challenges and Opportunities of Community Based Water Management. Paper presented at ICARUS workshop " Climate Vulnerability and Adaptation: Theory and Cases". Urbana-Champaign, IL, February 11-13.
- 2009 Murtinho, F. Watershed management and adaptation to environmental change: a case study of Water User Associations in the Colombian Andes. Paper presented in the 2009 Conference on the Human Dimensions of Global Environmental Change. Amsterdam, December 2-4.
- 2009 Murtinho, F. and C. Tague. Contrasting climate and land use changes with local perceptions: a case study of water management adaptation in the Andes of Colombia. Presented at 2009 Annual Conference of the American Water Resources Association. Seattle, November 9-12.
- 2009 Murtinho, F. Adaptación frente a la degradación de fuentes de agua: Experiencias de Acueductos Comunitarios en los Andes Colombianos. Paper presented at the 2nd Páramos World Congress. Loja, Ecuador, June 21-27.
- 2009 Murtinho, F. Adaptation in Watershed Management among Andean Rural Communities in Colombia. Dissertation preliminary results. Presented at the Inter-American Foundation Mid-Year Conference. Quito, Ecuador, February 11-13.
- 2008 Murtinho, F. and TM. Hayes. Insights from the field for measuring and analyzing adaptation in common-pool resource management. Proceedings of the Biennial Conference of the International Association for the Study of the Commons. Cheltenham, England, July 14-18.

## RESEARCH GRANTS AND AWARDS

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- 2017-Present **NSF** - Decision, Risk and Management Sciences. T. Hayes, and F. Murtinho. "RUI: What happens when payments stop? Collective resource management under the rise and fall of Payment for Environmental Services (PES)" (\$496,163)
- 2016 **Seattle University**, Summer Faculty Fellowship (\$7,100)
- 2013 **Seattle University**, Center for Environmental Justice and Sustainability Faculty Fellowship, Course Release.
- 2012-2015 **NSF** - Decision, Risk and Management Sciences. T. Hayes, F. Murtinho and H. Wolff. "RUI: Influence of Economic Incentives on Common-Property Forest Management: Rural Decision Making in the Context of REDD+" (\$450,000)
- 2010 **NSF - PASI Program** - Climate Change and Hazards in the Americas (Training)
- 2009-2010 **UCSB**. Graduate USAP Fellowship (\$1,458)
- 2009 **NSF** - Geography and Spatial Sciences. Dissertation Award (\$11,950)
- 2009 **UCSB**. Affiliates Graduate Dissertation Fellowships (\$3,000)
- 2009 **UCSB**. Nancy Brown Environmental Graduate Dissertation Fellowship (\$3,000)
- 2009 **UCSB**. Graduate Research Award for Social Science Surveys GRASSS (\$1,160)

2008-2009	<b>Inter-American Foundation's</b> Grassroots Fellowship (\$17,000)
2008-2009	<b>Proyecto Páramo Andino</b> Fellowship (\$6,250)
2008	<b>UCSB.</b> Academic Senate Travel Grant (\$1,030)
2007	<b>UCSB.</b> Luce Environmental Science to Solutions Fellowship (\$6,000)
2007	<b>UCSB.</b> James D. Kline Fund for International Studies Award (\$2,500)
2006-2008	<b>UCSB.</b> Geography Department. Teacher Assistantship (\$102,100)
2002	<b>Indiana University.</b> IFRI Training Scholarship (\$5,000)
2001	<b>Environmental Department of Bogotá.</b> Master Thesis Support Grant (\$500)
2000-2001	<b>Inter-American Development Bank</b> and Uniandes Fellowship (\$22,800)
1997	President of the Economic Department's Student Association, Uniandes, Bogotá.

## COURSES TAUGHT

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<u>Geography/Env.Studies</u>	<u>Public Policy</u>	<u>Methods</u>
<ul style="list-style-type: none"> <li>World Geography (undergraduate)</li> <li>Environmental Perspectives (undergraduate)</li> </ul>	<ul style="list-style-type: none"> <li>Policy Analysis (graduate)</li> </ul>	<ul style="list-style-type: none"> <li>Research design and statistics (undergraduate &amp; graduate level)</li> <li>Geographic Information Systems (GIS) (undergraduate &amp; graduate level)</li> </ul>

## SERVICE

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### I. Service to the University

2021-Present	Advisory Board Member, Seattle University Undergraduate Research Journal
2019	Office of Sponsored Research Hiring Committee
2016-2020	Geographic Information Systems University Committee
2015-2017	Advisory Board Member, International Development Internship Program (IDIP)
2014-2017	Guest Speaker for Xavier Global House Initiative
2014	Conference selection committee for the Center for Environmental Justice and Sustainability
2009	Guest Speaker at Working Collaboratively for Sustainability

### II. Service to College of Arts and Sciences

2019-2020	A&S Professional Advisory Board
2017-2019	A&S Faculty and Staff Senate
2017	NAEF Scholarship Application Reviewer
2016-2017	A&S Global Affairs Committee
2011-Present	Faculty external support for Environmental Studies Program
2011	Faculty Advisor, Friends of Nicaragua

### **III. Service to my Departments**

- 2018-Present International Studies Professional Development Coordinator
- 2018-Present Mentor for two TT IPS Faculty
- 2013-Present International Studies & IPS advisor for ~25 students/quarter
- 2019-2021 Environmental Studies faculty search committee
- 2017-2021 IPS – Chair Diversity & Inclusion Committee
- 2016-2017 International Studies faculty search committee
- 2015-2016 International Studies graduate program committee
- 2014-2015 International Studies faculty search committee
- 2014-2016 International Studies major curriculum committee
- 2013-2014 International Studies honors program curriculum committee
- 2013-2016 International Studies faculty representative at Fall Preview Days
- 2012-2013 MPA quantitative curriculum committee

### **IV. Service to Undergraduate Research**

- 2019-2020 Undergraduate research in Ecuador (mentored 6 students)
- 2018-2019 Undergraduate Research in Statistics (supervised 1 student)
- 2017-Present Honor's Thesis Advisor (4 students)
- 2015-2017 Faculty Advisor to Global Student Embassy club
- 2015 Presenter at Sullivan Leader's day
- 2014-2015 Undergraduate Research in Statistics and GIS (supervised 2 students)
- 2014 Undergraduate research in Ecuador (mentored 3 students)
- 2013-2014 Faculty Advisor, Fulbright Application
- 2011-2014 Undergraduate mentor for Capstone students
- 2011 Undergraduate research in Ecuador (mentored 2 students)

### **V. Service to External Communities**

- 2021 External advisor "Fundacion IC" Colombia.
- 2014 Report to Ecuadorian Environmental Agency and CONDESAN
- 2014 Environmental and Development workshops with Andean communities in Ecuador
- 2011 Report to Regional Environmental Authority in Colombia

### **VI. Service to Academic Field**

Panel co-organizer with Tanya Hayes. "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

### **External Reviewer for Grant Proposals**

National Science Foundation (Decision, Risk and Management Sciences Program)  
CONDESAN, Ecuador (Fondo Becas Bosques Andinos)

### **External Reviewer for Dissertations & Policy Reports**

2021-Present Co-chair in a PhD dissertation, Rural Development Program, FLACSO, Ecuador  
2020 Dissertation Reviewer, Public Policy Program, FLACSO, Ecuador  
2019 University of Geneva, Assessing the potential contribution of PPCR to building a climate-resilient water governance framework in Bolivia

### **External Reviewer for Refereed Journals**

AMBIO	Journal of Rural Studies
Applied Geography	Land Degradation and Development
Climate and Development	Land Use Policy
Conservation Letters	Latin American Research Review
Ecological Economics	Mountain Research & Development
Ecosystem Services	Regional Environmental Change
Environmental Management	Society and Natural Resources
Human Ecology	Sustainability
Human Organization	Water and Climate
Global Environmental Change	Water Policy
Interdisciplinary Environmental Review	World Development
International Journal of the Commons	

### **PROFESIONAL MEMBERSHIP**

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2008-Present International Association for the Study of the Commons – IASC  
2008-2018 Association of American Geographers – AAG  
AAG Specialty Groups: Cultural & Political Ecology, Latin America, Rural Geography, Human Dimensions of Global Change  
2013-2018 Conference of Latin Americanist Geographers – CLAG  
2009-2010 American Water Resource Association – AWRA