

Bio-bibliography

Robert Heilmayr

Assistant Professor III

University of California, Santa Barbara

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This update refers to the period: September 16, 2017 to June 30, 2019

Curriculum vitae

Education

Stanford University, Ph.D., Environment and Resources, 2016

Stanford University, M.A., Economics, 2014

Claremont McKenna College, B.A., Environmental Studies, Economics and Politics; Politics, Philosophy and Economics, 2006

Areas of specialization

Environmental economics; Ecological economics; Land system science; Remote sensing; Geography; Conservation biology

Previous and currently held academic or professional appointments

2017 - Present, Assistant Professor, University of California, Santa Barbara, Bren School of Environmental Science and Management

2016 - Present, Assistant Professor, University of California, Santa Barbara, Environmental Studies

2016, Postdoctoral Fellow, University of Hawaii, Mānoa, Department of Natural Resources and Environmental Management

Professional organizations

Global Land Programme

Part I. Research

Cumulative list of publications

N.	Year	Title and authors	Publisher	Type
1	2008	"Analysis of the legal and organisational issues arising in linking the EU Emissions Trading Scheme to other existing and emerging emissions trading schemes", MJ Mace, Ilona Millar, Christoph Schwarte, Jason Anderson, Derik Broekhoff, Robert Bradley, Catherine Bowyer and Robert Heilmayr	Foundation for International Environmental Law and Development, Institute for European Environmental Policy, World Resources Institute	Report
2	2008	"A Comparison of Legislative Climate Change Targets in the 110th Congress", John Larsen and Robert Heilmayr	World Resources Institute	Report
3	2008	Leveling the Carbon Playing Field: International Competition and U.S. Climate Policy Design, Trevor Houser, Rob Bradley, Britt Childs, Jake Werksman and Robert Heilmayr	Peterson Institute for International Economics and World Resources Institute	Book
4	2009	"Emissions reductions under the American Clean Energy and Security Act", John Larsen and Robert Heilmayr	World Resources Institute	Report
5	2009	"Climate Policy and Industrial Competitiveness: Ten Insights from Europe on the EU Emissions Trading System", Michael Grubb, Thomas Brewer, Misato Sato, Robert Heilmayr and Dora Fazekas	German Marshall Fund	Report
6	2009	"A Green Global Recovery? Assessing US Economic Stimulus and the Prospects for International Coordination", Trevor Houser, Shashank Mohan and Robert Heilmayr	Peterson Institute for International Economics and World Resources Institute	Report
7	2009	"China, the United States, and the Climate Change Challenge", Deborah Seligsohn, Robert Heilmayr, Xiaomei Tan and Lutz Weischer	World Resources Institute	Report
8	2011	"Effective, efficient or equitable: using allowance allocations to mitigate emissions leakage", Robert Heilmayr and James Bradbury	<i>Climate Policy</i> , 11 (4): 1113-1130	Article
9	2012	"Changes in Impacts of Climate Extremes: Human Systems and Ecosystems" in Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation, John Handmer et al.	<i>Intergovernmental Panel on Climate Change</i>	Book chapter
10	2014	"Conservation through intensification? The effects of plantations on natural forests", Robert Heilmayr	<i>Ecological Economics</i> , 105: 204–10.	Article
11	2016	"Impacts of Nonstate, Market-Driven Governance on Chilean Forests", Robert Heilmayr and Eric F. Lambin	<i>Proceedings of the National Academy of Sciences</i> , 113 (11): 2910–15	Article
12	2016	"Land-Use Policies and Corporate Investments in Agriculture in the Gran Chaco and Chiquitano", Yann le Polain de Waroux, Rachael D. Garrett, Robert Heilmayr and Eric F. Lambin	<i>Proceedings of the National Academy of Sciences</i> , 113 (15): 4021–26	Article

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N.	Year	Title and authors	Publisher	Type
13	2016	"Reply to Levine-Schnur: Decisions to deforest illegally are influenced by fines and their perceived enforcement probability", Yann le Polain de Waroux, Rachael D. Garrett, Robert Heilmayr and Eric F. Lambin	<i>Proceedings of the National Academy of Sciences</i> , 113 (25): E3469	Reply
14	2016	"A plantation dominated forest transition in Chile", Robert Heilmayr, Cristian Echeverría, Rodrigo Fuentes and Eric F. Lambin	<i>Applied Geography</i> , 75: 71–82	Article
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15**	2018	"Effect of oil palm sustainability certification on deforestation and fire in Indonesia" Kimberly M. Carlson [†] , Robert Heilmayr [†] , Holly K. Gibbs, Praveen Noojipady, David Burns, Douglas C. Morton, Nathalie F. Walker, Gary D. Paoli and Claire Kremen	<i>Proceedings of the National Academy of Sciences</i> , 115 (1): 121–26	Article
16	2018	"Climate Teams: A New Model for Investor-Host Climate Cooperation" in International cooperation in East Asia to address climate change Suzi Kerr, Ruben Lubowski and Robert Heilmayr	Harvard Project on Climate Agreements	Policy brief
17**	2018	"The role of supply-chain initiatives in reducing deforestation" Eric F. Lambin, Holly K. Gibbs, Robert Heilmayr, Kimberly M. Carlson, Leonardo Fleck, Rachael D. Garrett, Yann le Polain de Waroux, Constance McDermott, David McLaughlin, Peter Newton, Christoph Nolte, Charlotte Streck, Tannis Thorlakson, Nathalie F. Walker	<i>Nature Climate Change</i> , 8 (2): 109	Article
18***	2018	"Navigating novelty and risk in resilience management" Joan Dudley, Richard J. Hobbs, Robert Heilmayr, John J. Battles and Katherine N. Suding	<i>Trends in Ecology and the Environment</i> , 33 (11): 863–73	Article
19***	2018	"Inequality and the biosphere" Maike Hamann, Kevin Berry, Amir Jina, Tomas Chaigneau, Tracie Curry, Robert Heilmayr, Patrik Henriksson, Jonas H. Sundberg, Emelie Lindkvist, Yolanda Lopez-Maldonado, Emmi Nieminen, Matías Piaggio, Jiangxiao Qui, Juan-Carlos Rocha, Caroline Schill, Alon Shepon, Andrew Tilman, Inge van der Bijgaart, Tong Wu	<i>Annual Review of Environment and Resources</i> , 43 (1): 61–83	Article
20	2019	"Criteria for effective zero-deforestation commitments" Rachael D. Garrett, Sam Levy, Kimberly M. Carlson, Toby A. Gardner, Javier Godar, Jennifer Clapp, Peter Dauvergne, Robert Heilmayr, Yann le Polain de Waroux, Ben Ayre Robin Barr, Barbro Døvre, Holly K. Gibbs, Simon Hall, Sarah Lake, Jeffrey C. Milder, Lisa L. Rausch, Rodrigo Rivero, Ximena Rueda, Ryan Sarsfield, Britaldo Soares-Filho, Nelson Villoria	<i>Global Environmental Change</i> , 54 (1): 135–47	Article

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N.	Year	Title and authors	Publisher	Type
21***	2019	"Testing the benefits of conservation set-asides for improved habitat connectivity in tropical agricultural landscapes" Sarah A. Scriven, Kimberly M. Carlson, Jenny A. Hodgson, Colin J. McClean, Robert Heilmayr, Jennifer M. Lucey and Jane K. Hill	<i>Journal of Applied Ecology</i> , 2019	Article
22	2019	"Cambios de uso y cobertura del suelo en la Cordillera de la Costa del centro-sur de Chile entre 1986 y 2011" Cristian Echeverría, Rodrigo Fuentes and Robert Heilmayr	<i>Biodiversidad y Ecología de los Bosques Costeros de Chile</i> , C.Smith-Ramírez and F.A. Squeo, eds. Editorial Universidad de los Lagos, 2019	Book chapter

* Previously listed as work in press

** Previously listed as work submitted

*** Previously listed as work in progress

† Denotes equal contribution

Work submitted

N.	Title and authors	Publisher	Type
C1	"The impacts of the Amazon Soy Moratorium on deforestation", Robert Heilmayr, Lisa Rausch, Jacob Munger and Holly K. Gibbs	<i>Nature Sustainability</i>	Article
C2	"Deforestation spillovers from oil palm sustainability certification", Robert Heilmayr, Jason Jon Benedict and Kimberly M. Carlson	<i>Environmental Research Letters</i>	Article
C3***	"Forest subsidies reduced native forest extent, carbon sequestration and biodiversity in Chile", Robert Heilmayr, Cristian Echeverría and Eric F. Lambin	<i>Nature Climate Change</i>	Article
C4***	"Managing Uncertainty in Carbon Offsets: Insights from California's Standardized Approach", Barbara Haya, Danny Cullenward, Aaron L. Strong, Emily Grubert, Robert Heilmayr, Deborah Sivas, Michael Wara	<i>Climate Policy</i>	Article

* Previously listed as work in press

** Previously listed as work submitted

*** Previously listed as work in progress

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Part II. Teaching

The course load for this professor was 3 course equivalents per year in the Environmental Studies Program in the 2017-2018 academic year. After adding an affiliation with the Bren school, the course load for this professor changed to 2.625 course equivalents per year in the Environmental Studies Program and 0.875 course equivalents per year in the Bren School. The professor used one course equivalent teaching release granted as part of his initial hire during the Winter 2018 academic quarter. In addition, the professor used a release to grant to offset one course equivalent of teaching during the spring 2019 academic quarter. In aggregate, the professor met his 6.5 course equivalent teaching expectation through 4.5 course equivalents of teaching and 2 course equivalents of pre-approved teaching releases.

Catalog courses

Qtr.	Course number	Title	Units	Hrs/Week	Enrollment	Mean evaluations
F17	ENVS30	Introduction to Environmental Economics	4	3.0	65	Q-A: 2; Q-B: 2.1
S18	ENVS154	Geographic Information Systems for Environmental Applications	4	3.0	42	Q-A: 1.3; Q-B: 1.4
F18	ENVS194ES	Food and agriculture faculty search	2	1.5	9	Q-A: 1; Q-B: 1
W19	ENVS30	Introduction to Environmental Economics	4	3.0	72	Q-A: 1.7; Q-B: 1.8
W19	ESM514	Collaborative Interdisciplinary Research	4	1.5	7	Q-A: 1.2; Q-B: 2

Undergraduate projects directed

Name	Year completed	Project type	Optional info
Roselyn Wu	2018	Senior thesis	
Katie McGill	2018	Directed research	
Taylor Lockmann	2018	Directed research	Edison Scholar
Ryan Zinniger	2018	Directed research	Edison Scholar
Meagan Brown	2019	Directed research	
Angela Delos Santos	2019	Senior thesis	Environmental Studies Best Thesis, UCSB Undergraduate Research Slam First Place, Undergraduate Research and Creative Activities Grant, Faculty Research Assistance Program Grant

M.A. committees

Name	Year completed	Chair/Member	Optional info
Charlotte Smith	Current student	Member	University of Hawaii

Ph.D. committees

Name	Year completed	Chair/Member	Optional info
Julia Lawson	2018	Member	Switched committee members
Jason Maier	Current student	Member	
Ignacia Rivera	Current student	Member	
Albert Garcia	Current student	Chair	
Alice Lepissier	Current student	Member	

Postdoctoral scholars supervised

Name	Years	Optional info
Megan Kelso	2018 - present	University of California, Los Angeles, NatureNet postdoctoral fellow
Michael Eggen	2019 - present	Science for Nature and People Partnership postdoc

Other scholars supervised

Name	Years	Project type	Optional info
Jason Jon Benedict	2017 - present	Research specialist	Research Mentorship Program Scholarship
Patrick Kim	2019	High school internship	

Other teaching contributions

Bren School group projects

Year	Project	Role
2019	CitePlan: Integrating Current Efforts to Move Cumulative Impact Assessment Forward in California	External advisor

Guest lectures

Quarter	Class
Fall 2018	ESM242: Natural Resource Economics and Policy
Fall 2018	ESM296: Science and Management for Forest Sustainability
Fall 2018	ESM510: Faculty Research Seminar

Additional mentoring

Name	Years	Optional info
Buyanzaya Buyanart	2017 - 2018	Dream mentor
Leyda Alvarado-Ramirez	2017 - 2018	Dream mentor
America Diaz Torres	2018 - 2019	Dream mentor
Suhey Vazquez	2018 - 2019	Dream mentor

Part III. Professional activities

Lectures presented

Date	Title	Meeting/Place
November, 2017	Empirical measurements of spillovers from an ecocertification program	Robert Bosch Foundation, Land use spillover and leakage effects worksho, Berlin, Germany
February, 2018	Empirical and monitoring needs to implement a reforestation climate team agreement in Colombia	Australasian Agricultural and Resource Economics Society, Annual Meeting, Adelaide, Australia
February, 2018	Discussant – Climate Teams: contracting for ambitious mitigation in developing countries	Australasian Agricultural and Resource Economics Society, Annual Meeting, Adelaide, Australia
February, 2018	Empirical measurements of impacts and spillovers from an ecocertification program	Australasian Agricultural and Resource Economics Society, Annual Meeting, Adelaide, Australia
February, 2018	Using oil palm supply chain disclosures to inform market-wide transparency	Stockholm Environment Institute, Mapping Palm Oil Supply Chains at Scale, Trase technical workshop, Jakarta, Indonesia
March, 2018	Effect of oil palm sustainability certification on forests and fire	Conservation International, Social Science Seminar, Washington, DC
April, 2018	Effect of oil palm sustainability certification on forests and fire	UCSB, Geography colloquium, Santa Barbara, CA
September, 2018	Monitoring needs for a reforestation climate team agreement in Colombia	Environmental Defense Fund, San Francisco, CA
April, 2019	Landscape-scale forest assessments to support zero-deforestation supply chains	Science for Nature and People Partnership, Working Group Meeting, Jogjakarta, Indonesia
April, 2019	Landscape-scale forest assessments to support zero-deforestation supply chains	High Carbon Stock Approach, Steering Group Meeting, Jogjakarta, Indonesia
April, 2019	Impacts of the Amazon Soy Moratorium	Global Land Programme, Open Science Meeting, Bern, Switzerland
April, 2019	Nonstate, market-driven governance of tropical deforestation	Stanford University, Earth System Science Seminar, Palo Alto, CA
June, 2019	Science for sustainable and inclusive oil palm	Packard Foundation, Menlo Park, CA

Grants and contracts

Years	Source	Title	Amount (Personal share)	Role	New/Cont.
2018- 2019	European Commission / Global Canopy	Trase for Indonesian oil palm	\$20,317	Contractor	New
2018- 2019	Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning (Formas)	Inequality and the sustainable development goals: A multi-scale analysis of tradeoffs, synergies, and interactions	\$208,000 (\$5000)	co-I	New
2018- 2019	Moore Foundation / University of Wisconsin	Deforestation impacts of the Amazon Soy Moratorium	\$51,220	co-I	New
2019	Norway's International Climate and Forests Initiative / Global Canopy	Trase for Indonesian oil palm	\$33,642	Contractor	Cont.
2019- 2020	Science for Nature and People Partnership	Zero-deforestation landscapes	\$276,208	co-PI	New

Patents

Year	Authors	Title	Patent number
2018	Ashwin Madgavkar, James McBride, Dan Urban and Robert Heilmayr	"Methods and devices for assessing a field of plants for irrigation"	United States Patent Office, US10143148B2

Reviewing and refereeing activity

Date	Activity
2017	Manuscript referee, <i>Land Use Policy</i>
2018	Manuscript referee, <i>International Journal of Remote Sensing</i>
2018	Manuscript referee, <i>Biological Conservation</i>
2018	Manuscript referee, <i>Conservation Letters</i>
2018	Manuscript referee, <i>International Journal of Remote Sensing</i>
2018	Manuscript referee, <i>PLOS One</i>
2018	Conference referee, Occasional Workshop in Environmental and Resource Economics
2018	Conference referee, Global Land Program Open Science Meeting
2019	Manuscript referee, <i>Proceedings of the National Academy of Sciences</i>
2019	Manuscript referee, <i>Spatial Economics and Analysis</i>
2019	Manuscript referee, <i>Ecological Economics</i>
2019	Proposal referee, National Fund for Scientific and Technological Development, Chile
2019	Manuscript referee, <i>Nature Geoscience</i>
2019	Book manuscript referee, <i>Oxford University Press</i>

Special appointments

Years	Position	Type of service
2016-present	Member	High Carbon Stock Approach, Scientific Advisory Committee
2016-2017	Working group member	National Socio-Environmental Synthesis Center (SESYNC) Pursuit, "Assessing the potential influence of zero-deforestation corporate supply chain commitments on tropical land cover"
2019-present	Working group leader	Science for Nature and People Partnership (SNAPP) Working Group, "Zero deforestation landscapes"
2018-present	Fellow	Environmental Market Solutions Lab (emLab)

Other professional contributions

Session, workshop and conference organizing

Date	Location	Title	Event	Role
April, 2019	Yogyakarta, Indonesia	Zero-deforestation oil palm: Barriers and opportunities for smallholder producers	Science for Nature and People Partnership, Zero-deforestation landscapes working group	Organizer
April, 2019	Bern, Switzerland	The role of supply chain initiatives in reducing deforestation	Global Land Program, Open Science Meeting	Session co-chair
April, 2019	Bern, Switzerland	Industry perspectives on achieving zero-deforestation	Global Land Program, Open Science Meeting	Session co-chair

Part IV. Service

University service

Academic year	Position	Type of service
2017-2018	Member	Environmental Studies Program, ES/Bren Joint Concerns Committee
2017-2018	Faculty Mentor	Undocumented Student Services, Dream scholar faculty mentorship program
2017-2018	Member	Environmental Studies Program, Space Needs Ad Hoc Committee
2017-2018	Member	Environmental Studies Program, Diversity and Inclusion Committee
2017-2018	Member	Environmental Studies Program, Planning Committee
2018-2019	Member	Environmental Studies Program, Financial Administrator Search Committee
2018-2019	Member	Environmental Studies Program, Space Needs Ad Hoc Committee
2018-2019	Member	Environmental Studies Program, ES/Bren Joint Concerns Committee
2018-2019	Member	Environmental Studies Program, Food and Agriculture Faculty Search Committee
2018-2019	Faculty Mentor	Undocumented Student Services, Dream scholar faculty mentorship program
2018-2019	Member	Bren School, H. William Kuni Project Committee
2018-2019	Member	Bren School, Ph.D. Curriculum Ad Hoc Committee
2018-2019	Member	Bren School, Forest Sustainability Fellowship Program