

## Robert Heilmayr

UCSB mail code 4160, Santa Barbara, CA 93016

(817) 228-0609 – rheilmayr@es.ucsb.edu

www.robertheilmayr.com

### ACADEMIC APPOINTMENT

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Assistant Professor, Environmental Studies Program, University of California, Santa Barbara

### EDUCATION

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University of Hawai'i, Postdoctoral fellow, Carlson Lab, 2016

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

### PUBLICATIONS

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Citations: 602 | h-index: 10 | i10-index: 10 | Google scholar profile: <http://tinyurl.com/heilmayr>

#### Peer reviewed journal articles

Heilmayr, Robert, Cristian Echeverría, Rodrigo Fuentes, and Eric F. Lambin, "A plantation dominated forest transition in Chile," *Applied Geography* 75 (October): 71–82. 2016.

Waroux, Yann le Polain de, Rachael D. Garrett, Robert Heilmayr, and Eric F. Lambin. "Land-Use Policies and Corporate Investments in Agriculture in the Gran Chaco and Chiquitano." *Proceedings of the National Academy of Sciences* 113 (15): 4021–26. 2016.

Heilmayr, Robert, and Eric F. Lambin. "Impacts of Nonstate, Market-Driven Governance on Chilean Forests." *Proceedings of the National Academy of Sciences* 113 (11): 2910–15. 2016.

Heilmayr, Robert. "Conservation through Intensification? The Effects of Plantations on Natural Forests." *Ecological Economics* 105: 204–10. 2014.

Heilmayr, Robert and James Bradbury. "Effective, efficient or equitable: using allowance allocations to mitigate emissions leakage." *Climate Policy* 11 (4): 1113-1130. 2011.

#### Working papers

Carlson, Kimberly M. \*, Robert Heilmayr\*, Holly K. Gibbs, Praveen Noojipady, David Burns, Douglas C. Morton, Nathalie F. Walker, Gary D. Paoli, and Claire Kremen. "Impact of Roundtable on Sustainable Palm Oil Certification on Forest Cover Loss in Indonesia." In review at *Proceedings of the National Academy of Sciences*.

Heilmayr, Robert, Cristian Echeverría, and Eric F Lambin. "Bio-perversity in Chile: afforestation subsidies cause biodiversity losses."

Lambin, Eric F.\*, 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. "The Road to Zero Deforestation Supply Chains." In review at *Nature Climate Change*.

Haya, Barbara, Aaron L. Strong, Danny Cullenward, Emily Grubert, Robert Heilmayr, Deborah Sivas, Michael Wara. "California's second-generation carbon offset program: managing uncertainty in emissions reductions."

\* denotes equal contributions

### **Books**

Houser, Trevor; Bradley, Rob; Childs, Britt; Werksman, Jake; Heilmayr, Robert. *Leveling the Carbon Playing Field: International Competition and U.S. Climate Policy Design*, Peterson Institute for International Economics and World Resources Institute, 2008.

### **Other peer reviewed publications**

Intergovernmental Panel on Climate Change, "Changes in Impacts of Climate Extremes: Human Systems and Ecosystems" in *Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation*, 2012.

Seligsohn, Deborah; Heilmayr, Robert; Tan, Xiaomei; Weischer, Lutz. "China, the United States, and the Climate Change Challenge." World Resources Institute, 2009.

Grubb, Michael; Brewer, Thomas; Sato, Misato; Heilmayr, Robert; Fazekas, Dora. "Climate Policy and Industrial Competitiveness: Ten Insights from Europe on the EU Emissions Trading System." German Marshall Fund, 2009.

Larsen, John; Heilmayr, Robert. "Emissions Reductions under the American Clean Energy and Security Act." World Resources Institute, 2009.

Houser, Trevor; Mohan, Shashank; Heilmayr, Robert. "A Green Global Recovery? Assessing U.S. Economic Stimulus and Prospects for International Coordination." Peterson Institute for International Economics and World Resources Institute, 2009.

Larsen, John; Heilmayr, Robert. "A Comparison of Legislative Climate Change Targets in the 110th Congress." World Resources Institute, 2008.

Mace, MJ et al. "Analysis of the legal and organisational issues arising in linking the EU Emissions Trading Scheme to other existing and emerging emissions trading schemes." FIELD, IIEE and WRI, 2008.

### **FELLOWSHIPS AND GRANTS**

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Beijer Young Scholar, Beijer Institute of Ecological Economics, 2016

Robert and Patricia Switzer Environmental Fellowship, 2013  
Kimmelman Family EIPER Fellowship, 2013  
Mel Lane Student Grants Program, 2012  
McGee Research Grant, Stanford School of Earth Sciences, 2011  
National Science Foundation Graduate Research Fellowship, 2011  
McGee Research Grant, Stanford School of Earth Sciences, 2010  
Charles and Roberta Katz IPER Family Fellowship, 2009  
Morris K. Udall Environmental Scholar, 2005  
Edward J. Sexton Politics, Philosophy and Economics Fellowship, 2004  
McKenna Scholar, 2002

## **TEACHING AND ADVISING**

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### **Awards**

Stanford School of Earth Sciences Certificate for Outstanding Achievement in Mentoring, 2013  
Stanford Centennial Teaching Assistant Award, 2012

### **Classes**

Guest Lecturer, Stanford University, Advanced Applications of Remote Sensing, 2015  
Teaching Assistant, Stanford University, Department of Environmental Earth System Science, *Global Land Use to 2050*, Instructors: David Lobell and Tom Hertel, 2012  
Co-Instructor, Stanford University, Department of Geological Sciences, Outdoor Education Program, 2011 to 2014

### **Undergraduate thesis mentoring**

Elif Tasar, Stanford University, winner of Miller Marsden Prize for Innovative Research on the Environment, 2012

## **PRESENTATIONS**

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### **Invited**

Google, Earth Engine User Summit, "Zero-deforestation palm oil," 2016  
Gordon and Betty Moore Foundation, Workshop on conservation outcomes from supply-chain interventions, "Impacts of non-state, market-driven governance on Chilean forests," 2016  
University of Hawaii, Natural Resources and Environmental Management Seminar, "Does private governance reduce deforestation?" 2016

University of California Berkeley, Geospatial Innovation Facility, "Private governance of land use change: effectiveness of voluntary agreements and forest certification in Chile," 2015

Carbon TradeEx North America, "A Green Global Recovery?" Washington, DC, 2009

Asia Regional Dialogue on Trade and Climate, organized by the International Institute for Trade and Development, "Use of trade-related tools to address competitiveness concerns in the context of climate change," Bangkok, Thailand, 2009

International Emissions Trading Association's Carbon Finance Side Event, "US policy design: Impacts on offset demand," Poznan, Poland, 2008

### **Contributed**

Bay Area Conservation Biology Symposium, "Private governance of land use: Comparing the effectiveness of moratoria and forest certification in Chile," Berkeley, CA, 2015

Association of American Geographers annual meeting, "Private governance of land use change: comparing the effectiveness of forest certification and a deforestation moratorium in Chile," Chicago, IL, 2015

Association of American Geographers annual meeting, "Conservation through intensification? The effects of plantations on natural forests," Los Angeles, CA, 2013

International Union of Forest Research Organizations Landscape Ecology Conference, "Conservation through intensification? The effects of plantations on natural forests," Concepcion, Chile, 2012

### **Posters**

Heilmayr, Robert, Carlson, Kimberly M., Holly K. Gibbs, Praveen Noojipady, David Burns, Douglas C. Morton, Nathalie F. Walker, Gary D. Paoli, and Claire Kremen. "Telecoupled governance of oil palm production," American Geophysical Union Annual Meeting. San Francisco, CA, 2016

California Academy of Sciences Forest Solutions Summit, "Market campaigns as a tool for conservation: effectiveness of Chile's forest substitution moratorium," San Francisco, CA, 2015

International Geographic Union Regional Conference, "Semi-automated mapping of the Chilean forest transition," Santiago, Chile, 2011

### **SERVICE**

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High Carbon Stock Approach, Scientific Advisory Committee, 2016-2017

California Air Resources Board, Rice Methane Offsets Technical Working Group Member, 2013 to 2014

Bay Area Tropical Forest Network, Board Member, 2011 to 2013

Emmett Interdisciplinary Program for Environment and Resources, Stanford University, Executive Committee, 2011 to 2012

Chapter Scientist, IPCC Working Group II, 2010 to 2011

Reviewer for *Environmental Research Letters*, *Global Environmental Change*, *Land Use Policy*, *Ecological Economics*, *Applied Geography*, *Remote Sensing Letters*, *Forest Policy and Economics*, National Science Foundation Review Panel, Society for Conservation Biology

## **PROFESSIONAL EMPLOYMENT**

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Remote Sensing Scientist, Ceres Imaging, 2013 to 2015

Research Analyst, World Resources Institute, 2007 to 2009

Foreign Agricultural Service Intern, U.S. Department of Agriculture, 2006

Analyst, Roberts Environmental Center, 2003 to 2006

Research Assistant, Greenpeace Eastern Europe, 2004

## **SELECTED PRESS**

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Mellgard, Peter. "Market-based conservation programs slow deforestation in Chile, study finds." Mongabay. February 20, 2016.

Amanpour, Christiane. "Is Obama Green Enough?" CNN International, February 8, 2009.

Bleskan, Kerry. "Big industrials looking into hedge value of long-term renewable power purchases." *SNL Electric Utility Report*, January 26, 2009.

*The Economist*. "America and climate change: Sins of emission." March 12, 2009.

*The Economist*. "Economics focus: The grass is always greener." April 2, 2009.

*The Environment Report*. "Obama's Budget Address & Green Recovery." NPR, February 23, 2009.

*The Economist*. "Allaying competitiveness concerns." July 2, 2008.

*The Economist*. "Economics focus: Emissions suspicions." June 19, 2008.

*ClimateWire*. "Laggard states stand to win in new version of Lieberman-Warner." June 3, 2008.

## **SKILLS**

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Languages: English (native), German (fluent), Spanish (conversant)

Software proficiency: Python, ArcGIS, ENVI, Stata, R