
Petterson Molina VALE

Researcher in agriculture, development and the environment

<http://pettersonvale.com>

Contact information

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Employment

2016 – 2019 Post-doctoral researcher, Nelson Institute of Env. Studies, University of Wisconsin-Madison, USA
2015 – 2018 Post-doctoral researcher, Department of Economics, University of São Paulo, Ribeirão Preto, Brazil

Education

2010 – 2015 **PhD Development Studies, London School of Economics**
“Land use intensification in the Amazon: revisiting theories of cattle, deforestation and development in frontier settlements”
Mixed-methods; development processes in agricultural frontiers
Supervisors: Diana Weinhold; Anthony Hall

2014 **Post-graduate Certificate on Higher Education Teaching (level 1)**, London School of Economics
· Associate Fellow of the UK’s Higher Education Academy

2008 – 2010 **MPhil. Economic Development (1st honours)**, UNICAMP, Brazil
· Economics of climate change: the Nordhaus x Stern controversy

2001 – 2007 **B.A. Economics**, USP, São Paulo, Brazil

Teaching and research interests

Ecological / Environmental economics, Development theory, Political ecology, Survey research design,
Land use science
Applied quantitative methods (Applied statistics, Spatial econometrics)

Teaching experience

2016 Guest lecturer, University of Wisconsin Madison
· People, land and food (309), Geography and Env. Studies (undergraduate level)

2014-2015 Graduate Teaching Assistant, LSE
· Trade, development and the environment (IR120), International Relations (undergraduate level)
· Applied regression analysis (MY452), Methodology Institute (PhD and Master’s level)
· Methods for spatial and social research (GY140), Geography and Environment (1st year undergrad.)

2013 Exam marker, LSE
· Environmental problems and development interventions (DV413), International Development
· Global environmental governance (DV415), International Development

2010 Invited lecturer, FGV, Brazil
· Economics of climate change

Peer-reviewed publications

2019 Vale, P., Gibbs, H., Vale, R., Christie, M., Florence, E., Munger, J., and Sabaini, D. **The expansion of intensive beef farming to the Brazilian Amazon**. *Global Environmental Change* (forthcoming).

Vale, P. M., Gibbs, H., Vale, R., Munger, J., Brandão Jr., A., Christie, M. and Florence, E. **Mapping the cattle industry in Brazil’s most dynamic cattle-ranching state: Slaughterhouses in Mato Grosso, 1967-2016**. *PlosOne*, <https://doi.org/10.1371/journal.pone.0215286>.

- 2016 Vale, P. M. **The changing climate of climate change economics.** *Ecological Economics*, 121: 12-19.
- Vale, P. M, and Stabile, M. **GIS without GPS: new opportunities in technology and survey research design to link people and place.** *Population and Environment*, 37 (4): 391-410.
- 2015 Weinhold, D., Reis, J. E. and Vale, P. M. **Boom-bust patterns in the Brazilian Amazon.** *Global Environmental Change*, 35: 391-399.
- 2014 Andrade, D. C. and Vale, P. M. 'Fronteiras planetárias' e limites ao crescimento: implicações de política econômica (*'Planetary boundaries' and limits to growth: implications to economic policy*). *Revista Iberoamericana de Economía Ecológica*, 22, 66-84.
- 2012 Vale, P. M. and Andrade, D. Comer carne e salvar a Amazônia? A produtividade da pecuária em Rondônia e sua relação com o desmatamento [*Eating beef and saving the Amazon? Productivity of cattle and its relation to deforestation*]. *Estudos Sociedade e Agricultura*, 20 (2): 381-408.

Grants

- 2016-2018 Sesync - Socio-environmental Synthesis Center (US\$ 50,000) – **"Forest, agriculture and river systems in the Brazilian Amazon"**. Lead authors: Jill Caviglia-Harris, Petterson Molina Vale, Ellen Wohl.
- 2013 Brazilian Ministry of Science and Technology, CNPq (US\$ 10,000) – **cattle ranching intensification, deforestation and frontier migration in the Brazilian Amazon** (principal author)
- 2011 Brazilian Development Bank, BNDES (US\$ 10,000) – **the role of productivity of cattle ranching on deforestation in the Brazilian Amazon** (principal author)

Work in progress

"Getting ranchers to reforest riparian areas: Payments for ecosystem services for cattle ranching in the Amazon" (submitted). Co-authors: Jill Caviglia-Harris, Ricardo Vale, Thaís Ottoni, Márcio Laurini, and Erin Sills.

"Big data in check: interventions in the cattle supply chain to control deforestation and the fight for the podium between private and public interventions" (presented at UNB, Brazil, 02/11/2017).

"Deforestation and poverty are no longer trending downward in Brazil. Did the poor revert back to clearing forests?" (op-ed and research proposal).

Working papers and book chapters

- 2014 (Working paper). **The conservation versus production trade-off: does livestock intensification increase deforestation? Evidence from the Brazilian Amazon.** Working paper No. 174, Grantham Research Institute on Climate Change and the Environment, London School of Economics. FEEM Working Paper; Presented at LSE (Jul.14); Envecon, London (Mar.15); AERE, San Diego (Jun.15).
- (Book chapter). Economia das mudanças climáticas: rumo ao mundo do possível [*Economics of climate change: towards the world of possible*]. In: Veiga, José (Org.). O imbróglio do clima. São Paulo: SENAC.
- 2012 (Working paper) With Diana Weinhold and José Eustáquio Reis. **Sustainability in the tropics: does a boom in deforestation lead to a bust in development?**. Working paper No. 82, Grantham Research Institute on Climate Change and the Environment, London School of Economics.
- 2011 (Working paper) Produtividade e preservação ambiental: um estudo exploratório para a pecuária de Rondônia [*Productivity and environmental conservation: an exploration of Rondônia's cattle ranching*]. BNDES working paper 21.
- 2008 (Book chapter) With José Eli da Veiga. Economia e política do aquecimento global [*Economics and politics of global warming*]. In: Veiga, José (Org.). Aquecimento global: frias contendas científicas. São Paulo, SENAC.

Congress papers (selection)

- 2009 **Ethics of climate change: historical responsibility, present capacity and sustainability.** Proceedings of the "Climate change - global risks, challenges and decisions" congress, Copenhagen.
Economia do estado estável: teoria e prática [*Steady-state economics, theory and practice*]. Proceedings of the 37th Meeting of the Brazilian Association of Graduate Studies in Economics, Foz do Iguaçu, Brazil.
- 2008 **Ecological economics and carbon pricing instruments: a review of the hybrid approach.** Proceedings of the 10th meeting of the International Society for Ecological Economics, Nairobi.

Conference / Seminar presentations (selection)

- 2017 "Getting ranchers to reforest riparian areas: Payments for ecosystem services for cattle ranching in the Amazon"
· Sesync, Univ. of Maryland; FEA-RP USP
"Pasture degradation and deforestation: evidence from Rondônia, Brazil"
· Lapig, UFG
- 2016 "Intensification of cattle ranching and deforestation in the Brazilian Amazon"
· UW-Madison
"Financial crises and environmental reputation as determinants of shifts in environmental regulation"
· FEA-RP USP
- 2015 "The conservation versus production trade-off: does livestock intensification increase deforestation? Evidence from the Brazilian Amazon"
· AERE, San Diego; Envecon, London; FEA-RP USP; LSE
- 2013 "The flip side of the Environmental Kuznets Curve: does deforestation cause development?"
· Embrapa Campinas, Brazil
- 2012 "Sustainability in the tropics: does a boom in deforestation lead to a bust in development?"
· Environment and Natural Resources Management, Clermont-Ferrand, France
· IPEA Rio de Janeiro, Brazil
- 2012 "Productivity and environmental conservation: a study of cattle ranching in the state of Rondônia, Brazil"
· Latin American and Caribbean Environmental Economics Program, Costa Rica
· Federal University of Uberlândia, Department of Economics, Brazil
· UNICAMP, Department of Economics, Brazil
· LSE, Department of International Development
· Embrapa Brasília, Brazil
· Secretary of the Environment, Government of the State of Rondônia, Brazil

Academic service

- Reviewer to: Plos One, Environmental Research Letters, Land Use Policy, Environmental and Resource Economics, Ecological Economics, Journal of International Development, Environmental Politics, International Area Studies Review, Análise Econômica, Economia & Sociedade, Revista de Economia Política
- 2016 Organizer of special section on land use intensification and the environment in *Agriculture, Ecosystems & Environment*
Referee to the Research Foundation, Flanders (FWO), and to the Catholic University of Peru (PUCP)
Co-organizer of session on "sustainable agricultural intensification" in Ecosummit 2016, Montpellier, France
Chair of session and discussant in Economics of Low Carbon Markets seminar, FEA-RP USP
- 2009-2013 Member of scientific committee for 8th, 9th and 10th Meetings of the Brazilian Ecological Economics Society
- 2011-2012 Contributing author to Brazilian Panel on Climate Change
- 2008-2010 Principal editor to post-graduate journal *Readings in Political Economy*, Unicamp, Brazil
- 2009 Co-organizer of public event on the health impacts of regulations on the level of sulfur in diesel, Faculty of Economics, USP, Brazil.

Media

- 2017 (Op-ed) "Is poverty the missing link to Amazon deforestation?" Nexo jornal (24/12/2017)
(Interview) "Farmers may be able to recover forests in the Amazon" Jornal da USP (21/08/2017).
- 2016 (Radio) "Economic crisis and the environment" Rádio USP (29/02/2016).
- 2015 (Op-ed) "COP-21 does not change the game" Folha de São Paulo (17/12/2015).
- 2014 (Book review) "The ecological hoofprint, by Tony Weiss". LSE Review of Books (04/03/2014).
- 2013 Various op-eds for the Agricultural Consultancy "Scott Consultoria".
- 2011 (Interview) "The Brazilian Forest Code". The Ecologist online (24/09/2011).
- 2008 (Op-ed) "Sick talk on global warming" Folha de São Paulo (25/09/2008).

Language skills

English: fluent

Italian: fluent (Speak., Read., Writ.)

Portuguese: native

French: intermediary (Speak., Read.)

Spanish: native

References

Prof. Jill Caviglia-Harris (jlcaviglia-harris@salisbury.edu)
Dep. of Economics and Finance, Salisbury Univ., USA

Prof. Diana Weinhold (d.weinhold@lse.ac.uk)
Department of International Development, LSE

Prof. José Eli da Veiga (zeeli@usp.br)
Energy and the Environment Institute, USP, Brazil