

RACHAEL D. GARRETT

A. CURRICULUM VITAE

1. SUMMARY

- Published 48 articles in peer-reviewed journals
- Google: 3500+ citations, h-index 29 (as of October 2022)
- Awarded >5 million CHF in grants, including an ERC Starting Grant in 2020
- Manage a research group of 14 people (5 post-docs, 9 doctoral students)
- Presented over 68 times at conferences, seminars and workshops, including 51 invited academic talks
- Act as an associate editor for *Global Environmental Change*, editorial board member for 4 journals, and reviewer for 23 journals
- Participate in several international scientific advisory panels

2. EDUCATION

- 2013 Ph.D. *Emmett Interdisciplinary Program in Environment and Resources (E-IPER)*, **Stanford University**, Stanford, CA
- 2006 M.P.A. *Environmental Science and Policy*, **Columbia University**, New York, NY
- 2003 B. A. *History and Environmental Analysis and Policy* (dual major), **Boston University**, Boston, MA
*Magna Cum Laude, Honors Program, Graduated in three years

3. INSTITUTIONAL APPOINTMENTS

Cambridge University

- 2022- *Moran Professor of Conservation and Development*
Department of Geography & Cambridge Conservation Initiative

ETH Zürich

- 2020- *Executive Committee*, Institute for Science Technology and Policy
- 2019- *Assistant Professor and Chair of the Environmental Policy Lab*
Departments of Humanities, Social and Political Science and Environmental System Science (dual appointment)
- 2019- *Member*, Institute for Environmental Decisions, Institute for Science Technology and Policy, Plant Science Center, World Food System Center, ETH 4 Development, Center for International and Comparative Studies

Boston University

- 2018-2019 *Associate Director*, Land Use and Livelihoods Initiative, Global Development Center
- 2015-2019 *Assistant Professor - Human Dimensions of Global Change*, Department of Earth and Environment
Faculty Associate, Pardee Center for the Study of the Longer Range Future
Core Faculty, Center for Latin American Studies

Harvard University

- 2013-2015 *Giorgio Ruffolo Postdoctoral Fellow in Sustainability Science*, J.F.K School of Government,

4. PROFESSIONAL SOCIETIES

- Global Land Programme, Earth System Governance, Association of Tropical Biology and Conservation, Association of American Geographers, Ecological Society of America

5. **HONORS & AWARDS**

- 2021 *International Geneva Award* from the Swiss Network for International Studies for best paper in International Studies that has high relevance to International Organizations
- 2021 *Academic Advisory Council Member*, United Nations Forum on Sustainable Standards
- 2021 *Advisory Council Member*, Transparency for Sustainable Economies Initiative, Stockholm Environment Institute
- 2021 *Research Council Member*, Evidensia, an organization that works to provide credible evidence on supply chain initiatives
- 2020 *Science Panel Member*, United Nations Science Panel for the Amazon
- 2020 *Scientific Steering Committee*, Global Land Programme
- 2020 *IOP Trusted Reviewer Award* (top 15% of reviews at IOP)
- 2018 Second authored article selected for *Environmental Research Letters*: i) *Featured Articles* and ii) *IOP Select*.
- 2015 *Pathways to Prosperity Paper Award*, FLARE (Forest and Livelihoods) Network
- 2015 Nominated for the *Norman Borlaug Award for Field Research*, Rockefeller Foundation
- 2014-2016 *Fulbright NEXUS Regional Scholar*, U.S. Department of State
- 2014-2015 *Science Engineering and Education for Sustainability Postdoctoral Fellowship*, NSF
- 2013 First authored article selected for *Environmental Research Letters*: i) *Annual Highlights*, ii) *Featured Articles*, and iii) *IOP Select*.
- 2011-2013 *Richard and Rhoda Goldman Fellowship*, Stanford University
- 2011 *School of Earth Science Excellence in Mentoring Award*, Stanford University
- 2009-2011 *Richard L. Kauffman and Ellen Jewett Fellowship*, Stanford University
- 2003 *Franklin C. Erickson Prize for Excellence in Geography*, Boston University
- 2000-2003 *Presidential Scholarship*, Boston University

B. **PUBLICATIONS**

Important notes:

Underlining indicates co-first authorship, *indicates a student advisee, **indicates a post-doc, and † provides additional pertinent information. In 2020 I switched from 2nd author to last author on publications for which I am the PI, so I appear as 2nd author for most of the publications prior to 2021 that were led by my students and post-docs.

Peer reviewed contributions

Ex-ante and ex-post evaluations of agricultural and conservation policies

1. Gollnow, F.**, Cammelli, F.**, Carlson, K., **Garrett, R.** “Gaps in adoption and implementation limit the current and potential effectiveness of zero-deforestation supply chain policies for soy.” *Environmental Research Letters* (in review).
2. Villoria, N., Carlson, K., Gollnow, F.*, and **Garrett, R.** Forthcoming, “Leakage is unlikely to offset the benefits of soybean zero-deforestation commitments in Brazil.” *Nature Communications*.
3. Pendrill, F., Gardner, T., Meyfroidt, P., Persson, M., Adams, J., Azevedo, T., Bastos-Lima, M., Baumann, M., Curtis, P., De Sy, V., **Garrett, R.** et al. 2022, “Disentangling the numbers behind agriculture-driven tropical deforestation.” *Science*, 377:6611.
4. Thompsom, W., Hart, W., Krütli, P. Jonas, J., Chavez, E., Kopainsky, B., Dawoe, E., **Garrett, R.**, Six, J. 2022, “Can sustainability certification deliver climate resilience for smallholder farmers? The case of Ghanaian cocoa” *Land Use Science*, 17:1, 407-428.
5. Sellare, J., Börner, J., Brugger, F., **Garrett, R.**, Günther, I., Meemken, E., Pelli, E., Steinhübel, L.,

- Wuepper, D. 2022, "Six research priorities to support corporate due diligence policies." *Nature*, 606: 7916.
6. **Garrett, R.** Grabs, J.**, Cammelli, F.**, Gollnow, F., Levy, S.* 2022. "Should payments for environmental services be used to implement zero-deforestation supply chain policies? The case of soy in the Brazilian Cerrado." *World Development*, 152: 105814.
 7. **Garrett, R.** Grabs, J.**, Cammelli, F.**, Gollnow, F., Levy, S.* 2022. "Should payments for environmental services be used to implement zero-deforestation supply chain policies? The case of soy in the Brazilian Cerrado." *World Development*, 152: 105814.
 8. Cammelli, F.**, Grabs, J.**, Levy, S.*, **Garrett, R.** 2022. "Equity-effectiveness tradeoffs emerging from cooperative versus coercive enforcement in supply chains: lessons from the Amazonian cattle sector." *Journal of Cleaner Production*, 332: 130031.
 9. Grabs, J.**, Levy, S.*, Cammelli, F.**, and **Garrett, R.** 2021. "Designing effective and equitable zero-deforestation supply chain policies." *Global Environmental Change*, 70: 102357.
- ➔ **Swiss Network for International Studies: International Geneva Award (2021)**
10. **Garrett, R.D.**, Levy, S.*, Gollnow, F.**, and Rueda, X., 2021. "Have food supply chain policies improved forest conservation and rural livelihoods? A systematic review." *Environmental Research Letters*, 16: 033002.
 11. Meyfroidt, P, Borner, J., **Garrett, R.**, Gardner, T., Godor, J., Kis-Katos, K.; Soares-Filho, B., Wunder, S. 2020. "Focus on leakage and spillovers: Informing land-use governance in a tele-coupled world." (Editorial) *Environmental Research Letters*, 15: 090202.
 12. Ermgassen, E.K.H.J. zu, Ayre, B., Godar, J., Lima, M.G.B., Bauch, S., **Garrett, R.**, Green, J., Lathuilière, M.J., Löfgren, P., MacFarquhar, C., Meyfroidt, P., Suavet, C., West, C., Gardner, T., 2020. "Using supply chain data to monitor zero deforestation commitments: an assessment of progress in the Brazilian soy sector." *Environmental Research Letters*. 15: 035003.
 13. Gardner, T.A. Benzie, M., Dawkins, E., **Garrett, R.**, et al., 2019. "Transformative Transparency: Enabling greater supply chain accountability to motivate and deliver on zero-deforestation commitments." *World Development*, 121: 163-177.
 14. **Garrett, R.D.**, Levy, S.*, Carlson, K. et al. 2019. "Criteria for effective zero-deforestation commitments." *Global Environmental Change*. 54: 135–147.
 15. le Polain de Waroux, Y., **Garrett, R.**, Graesser, J., Lambin, E., and Nolte, C. 2019. "The restructuring of South American soy and beef production and trade under changing environmental regulations." *World Development*, 121: 188-202.
 16. **Garrett, R.D.**, Koh, I.*, Lambin, E.F., le Polain de Waroux, Y., Kastens, J., and Brown, J.C., 2018. "Intensification in agriculture-forest frontiers: land use responses to development and conservation policies in Brazil." *Global Environmental Change*. 53: 233-243.
 17. Lambin, E., Gibbs, H., Heilmayr, R., Carlson, K. M., Fleck, L., **Garrett, R.**, et al. 2018. "The road to zero deforestation supply chains." *Nature Climate Change*, 8:109-116.
 18. Rueda, X., **Garrett, R.**, and Lambin, E, 2017. "Corporate investments in supply chain sustainability: selecting instruments in the agri-food industry." *Journal of Cleaner Production*, 42(4).
 19. **Garrett, R.**, Carlson, K., Rueda, X., and Noojipady, P., 2016. "Assessing the potential additional of certification by the Round table on Responsible Soybeans and the Roundtable on Sustainable Palm Oil" *Environmental Research Letters*, 11 045003.
 20. le Polain de Waroux, Y.** **Garrett, R.**, Heilmayr, R., and Lambin, E., 2016. "Land-use policies and corporate investments in agriculture in the Gran Chaco and Chiquitano" *Proceedings of the National Academy of Sciences*, 113: 4021–4026.
 21. **Garrett, R.**, Rueda, X., and Lambin, E., 2013. "Globalization's unexpected impact on soybean production in South America: linkages between preferences for non-genetically modified crops, eco-certifications, and land use." *Environmental Research Letters*, 8 044055.

➔ **ERL's Annual Highlights (2013), Featured Article (March 2014), and IOP Select.**

Sustainable intensification of pasture-based systems

22. Ryschawy, J., Tiffany, S., Gaudin, A., Niles, M., **Garrett, R.** 2021. "Moving niche agroecological initiatives to the mainstream: A case-study of sheep-viticulture integration in California." *Land Use Policy*, 109: 105680
23. Reis, J., Rodrigues, G., Barros, I., Rodrigues, R., **Garrett, R.**, et al. 2021. "Integrated Crop-Livestock Systems: A Sustainable Land-Use Alternative for Food Production in the Brazilian Cerrado and Amazon." *Journal of Cleaner Production* 283: 124580.
24. **Garrett, R.D.**, Ryschawy, J., Bell, L., Cornter, O.*, Ferreira, J., Garik, A.V., Gil, J.D.B.***, Klerkx, L., Moraine, M., Peterson, C., Reis, J., Valentim, J. 2020. "Drivers of decoupling and recoupling of crop and livestock systems globally." *Ecology and Society*, 25(1): 24.
25. Cortner, O.*, **Garrett, R.**, Valentim, J., Niles, M. et al. 2019. "Local perceptions of benefits and challenges to adopting integrated crop and livestock systems in Brazil." *Land Use Policy*, 92: 841-853.
26. Hayek, M. and **Garrett, R.**, 2018. "Nationwide shift to grass-fed beef requires larger cattle population." *Environmental Research Letters*. 13(8).
➔ **ERL Featured Article (2018), and IOP Select.**

27. Reis, J.C., Kamo, M.Y.T., Latorraca, D., Chen, R.F.F., Michetti, M., Wruck, F.J., **Garrett, R.D.**, Valentim, J.F., 2019. "Assessing the economic viability of integrated crop-livestock systems in Mato Grosso, Brazil." *Renewable Agriculture and Food Systems*, 35: 631-642.
28. Gil, J.D.B.***, **Garrett, R.**, Rotz, A., Daioglou, V., Valentim, J. Pires, G. F., Costa, M.H., Lopes, L., and Reis, J. 2018. "Tradeoffs in the quest for climate smart agricultural intensification in Brazil." *Environmental Research Letters*. 13(6).
29. Niles, M., **Garrett, R.**, and Walsh, D. 2018. "Ecological and economic benefits and challenges for integrating sheep into viticulture production" *Agronomy for Sustainable Development*, 38(1).
30. **Garrett, R.**, Niles, M., Gil, J.***, Gaudin, A., et al. 2017. "Social-ecological analysis of integrated crop and livestock systems: Current knowledge and remaining uncertainty." *Agricultural Systems*, 155: 136-146.
31. **Garrett, R.**, Niles, M., Gil, J.D.B.***, Dy, P.*, Reis, J., and Valentim, J. 2017. "Policy conditions for re-integrating crop and livestock systems: a comparative analysis." *Sustainability*, 9(3): 473.
32. Gil, J.D.B.***, **Garrett, R.**, Berger, T., 2016. "Determinants of crop-livestock integration in Brazil: evidence from the household and regional levels." *Land Use Policy*, 59: 557-568.

Determinants of land use behavior

33. Meyfroidt, P., de Bremond, A., Casey, R.,.....**Garrett, R.** et al. 2022. "Ten Facts about Land Systems for Sustainability." *Proceedings of the National Academy of Sciences*, 119 (7) e2109217118.
34. le Polain de Waroux, Y., **Garrett, R.**, Friis, C., Hopping, K. Chapman, M., Hoelle, J., Hodel, L.*, Zaehring, J.G. 2021. "The role of culture in land system science," *Journal of Land Use Science*, 16(4): 450-466.
35. Cammelli, F.***, **Garrett, R.D.**, Parry, L. and Barlow, J. 2020. "Fire Risk Explains Persistent Poverty and Fire Use in the Brazilian Amazon." *Global Environmental Change* 63: 102096.
36. Carlson, A., Zaehring, J., **Garrett, R.D.**, Silva, R.B.S., Furumo, P. Raya Rey, A. Torres, A., Chung, M., Li, Y., Liu, J. 2018. "Toward rigorous telecoupling causal attribution: a systematic review and typology," *Sustainability*. 10(12): 4426.
37. Meyfroidt, P. Roy Chowdhury, R., de Bremond, A., Ellis, E.C., Erb, K-H., Filatova, T., **Garrett, R.D.** et al., 2018. Middle-range theories of land system change. *Global Environmental Change*, 53: 52-67.
38. **Garrett, R.**, Gardner, T., Fonseca, T., et al. 2017. "Explaining the persistence of low income and environmentally degrading land uses in the Brazilian Amazon". *Ecology and Society*. 22(3):27.

- **Forest and Livelihoods: Assessment, Research, and Engagement Network (FLARE) Pathways to Prosperity Paper Award (2015)**

39. **Garrett, R.**, Lambin, E., and Naylor, R., 2013. “The new economic geography of land use change: supply chain configurations and Land Use in the Brazilian Amazon.” *Land Use Policy*, 34: 265–275.
40. Gardner, T., Ferreira, J., Barlow, J..... **Garrett, R.** et al., 2013. “A social and ecological assessment of tropical land-uses at multiple scales: the Sustainable Amazon Network.” *Philosophical Transactions of the Royal Society – B.*, 368: 1619.
41. **Garrett, R.**, Lambin, E., and Naylor, R. 2012. “Land institutions and supply chains as determinants of local soy planted area and yields.” *Land Use Policy*, 31: 385-396.

Sustainable and just food and forest systems

42. Löfqvist, S.*, Kleinroth, F., Fleischmann, F., Defries, R., Lele, S., Martin, D., Meyfroidt, P., Pfeiffer, M., Ryan, C., **Garrett, R.** Forthcoming. “Justice, democracy, and social science are the foundation of successful forest landscape restoration.” *Bioscience*.
43. **Garrett, R.**, Cammelli, F.**, Ferreira, J., Levy, S.*, Valentim, J., Viera, I., 2021 “Forest transitions and sustainable development in the Brazilian Amazon: History, trends, and future prospects.” *Annual Reviews in Environment and Resources*, 46: 625: 652.
44. Koh, I.*, **Garrett, R.D.**, Janetos, A., Mueller, N.D., 2020. “Climate risks to Brazilian coffee production.” *Environmental Research Letters*, 15: 104015.
45. Leal, C. G.; Lennox, G. D.; Ferraz, S. F.; Ferreira, J.; Gardner, T. A.; Thomson, J. R.; Berenguer, E.; Lees, A. C.; Hughes, R. M.; MacNally, R., Aragã, L.E.O.C., Brito, J.G., Castello, L., **Garrett, R.D.** et al. 2020 “Integrated terrestrial-freshwater planning doubles tropical aquatic species conservation.” *Science*, 370: 117–121.
46. Gardner, C., Hartle, J., **Garrett, R.** Offringa, L., and Wasserman, A. 2019. “Amount and type of protein produced and consumed in America: Maximizing the intersection of human health and the health of the environment.” *Nutrition Reviews*. 77(4): 192-215.
47. **Garrett, R. D.** and Rausch, L., 2016 “Green for gold: social and ecological tradeoffs influencing the sustainability of the Brazilian soy industry.” *The Journal of Peasant Studies*, 43(2):461-493.
48. Martinelli, L., **Garrett, R.**, Ferraz, S., and Naylor, R., 2011. “Sugar and ethanol production as a rural development strategy in Brazil: evidence from the state of São Paulo.” *Agricultural Systems*, 104: 419–428.

Journal articles in-review

1. Grabs, J. and **Garrett, R.** “Sustainability paradoxes along the supply chain when implementing private environmental governance in the Indonesian palm oil sector.” *Journal of Business Ethics (R&R)*.
2. Wuepper, D., Crowther, T., Lauber, T., Routh, D., Le Clec’h, S., **Garrett, R.** Börner, J. “The influence of countries on the world’s forests.” *Nature Ecology and Evolution* (in review).
3. Reis et al. “Sustainability assessment in an integrated agriculture-livestock intensification gradient based on fuzzy logic indicators” *Agricultural Systems (R&R)*.
4. Reis, T., Kuemmerle, T., **Garrett, R.**, and Meyfroidt, P. “Explaining stickiness in supply chains: What makes companies to source commodities consistently from the same regions over time?” *Global Environmental Change* (in review).
5. Levy, S.*, Cammelli, F.**, Munger, J., Gibbs, H., **Garrett, R.** “Deforestation in the Brazilian Amazon could be halved with high market share and strong implementation of zero-deforestation commitments.” *Global Environmental Change* (in review).
6. Cortner, O.*, Gollnow, F.**, **Garrett, R.** “What drives forest degradation in post-Soviet landscapes?”

Book chapters and non-ISI peer reviewed contributions

1. Hecht, S.....**Garrett, R.** et al. The Amazon in motion: Changing politics, development strategies, peoples, landscapes, and livelihoods." *Amazon Assessment Report 2021, Part II* (2021): Chapter 14.
2. De Assis Costa, F.....**Garrett, R.** et al. Complex, diverse, and changing agribusiness and livelihood systems in the Amazon." *Amazon Assessment Report 2021, Part II* (2021): Chapter 15.
3. Stanmirova, R.* and **Garrett, R.**, 2021. (English) "Pasturelands, rangelands, and other grazing social-ecological systems." In *Managing Soils and Terrestrial Systems, Volume Three* Boca Raton: Taylor and Francis
4. **Garrett, R.**, Rueda, X., 2019. (English) Telecoupling and consumption in agri-food systems. In *Global Land-Use Change: The relevance of telecoupling research*. Eds. J.O. Neilson, C. Friis. London: Palgrave.
5. **Garrett, R.**, Gil, J. and Valentim, J., 2019. (Portuguese & English) Technology transfer: challenges and opportunities for the adoption of integrated crop-livestock-forestry systems in the Amazon. In *Integrated crop-livestock-forestry systems: A Brazilian experience for sustainable farming*. Eds. D. J. Bungenstab, R. G. Almeida, V. A. Laura, and L. C. Balbino, Brasilia: Embrapa.
6. Carlson, K. and **Garrett, R.**, 2018. (English) "Environmental impacts of oil crop expansion in the tropics: Contrasting soybeans in South America with oil palm in Southeast Asia." *Oxford Research Encyclopedia of Environmental Science*.
7. Valentim, J. and **Garrett, R.** 2015 (Portuguese) Promoting the well-being of family farmers with the use of low carbon agriculture and forestry systems in the Amazon biome. In *Caminhos para uma agricultura familiar sob bases ecológicas: produzindo com baixa emissão de carbono*. Eds. Azevedo, A. A.; Campanilli, M.; Pereira, C., Brasília: IPAM.
8. **Garrett, R.** and Latiewec, A. 2015. (English) "Sustainability indicators – What are they for? In *Sustainability Indicators in Practice* Eds. A. Latiewec and D. Agol. Warsaw: De Gruyter.

Policy briefs:

1. Grabs, J., Levy, S., Cammelli, F., and **Garrett, R.** 2021. *Step-by-step guide for effective and equitable zero-deforestation supply chain policies*. <https://zerodeforestationimpacts.com/outputs-and-resources/>
2. **Garrett, R.**, Cortner, O., Ferreira, J., Reis, J., and Valentim, J. 2019. *Linking science to policy to promote sustainable intensification of Brazilian agriculture and recuperation of degraded areas*. Embrapa. Brasilia, Brazil
3. **Garrett, R.**, Lambin, E. and le Polain de Waroux, Y. 2017. *To Eliminate Deforestation in South America, Reduce Differences in Regulations across Regions and Actors*. ISID Policy Brief PB 2017-05. Montreal, Canada: Institute for the Study of International Development, McGill University.
4. Gardner T.A., Godar J., **Garrett R.D.** 2016. *Caminhos para paisagens mais sustentáveis*. Rede Amazônia Sustentável
5. Gardner T.A., Godar J., **Garrett R.D.** 2014. *Governing for sustainability in agricultural-forest frontiers: A case study of the Brazilian Amazon*. Stockholm Environment Institute Discussion Brief.

Popular articles and blog entries:

1. Grabs, J., Levy, S., Cammelli, F., and **Garrett, R.** 2021. **Garrett, R.** and Rueda, X. 2021. "How to find synergies between effectiveness and equity when designing supply chain sustainability policies" Blog. <https://www.sustainablechains.org/how-to-find-synergies-between-effectiveness-and-equity-when-designing-supply-chain-sustainability-policies/>
1. **Garrett, R.** and le Polain de Waroux, Y. *Where does "culture" fit in land system science*. *Global Land Programme Blog*. <https://glp.earth/news-events/blog/where-does-%E2%80%9Cculture%E2%80%9D-fit-land-system-science>
2. Cammelli, F., Barlow, J., and **Garrett, R.** August 17, 2020. *Amazon fires trap farmers into poverty – and into*

setting more fires The Conversation UK. London, United Kingdom. <https://theconversation.com/amazon-fires-trap-farmers-into-poverty-and-into-setting-more-fires-139934>

3. Cammelli, F. and **Garrett, R.** June 12, 2020. *How the politics of misdirection fuel coronavirus and Amazon fires*. The Globe Post. Washington D.C., United States. <https://theglobepost.com/2020/06/12/coronavirus-amazon-fires/>
4. **Garrett, R.** September 18, 2019 *Partnerships to protect the forest*. ETH Zukunftsblog. Zürich, Switzerland. <https://ethz.ch/en/news-and-events/eth-news/news/2019/09/blog-amazonian-fires-rachael-garrett.html>
5. **Garrett, R.** August 27, 2019. *What Will it Take for Brazilian Farmers to Decrease Fire Use in the Amazon?* The Globe Post. Washington D.C., United States: <https://theglobepost.com/2019/08/27/amazon-fires-farmers/>
6. **Garrett, R.** November 5, 2018. *Strict Amazon protections made Brazilian farmers more productive, new research shows*. The Conversation. Cambridge, United States: <https://theconversation.com/strict-amazon-protections-made-brazilian-farmers-more-productive-new-research-shows-105789>
[Also available in Spanish: December 5, 2018. <https://theconversation.com/la-proteccion-estricta-del-amazonas-fomenta-la-productividad-agricola-en-brasil-106488>]
7. **Garrett, R.** and Ferreira, J. November 10, 2017. *Política agrícola na Amazônia*. Valor Econômico. São Paulo, Brazil: <http://www.valor.com.br/opiniaio/5188743/politica-agricola-na-amazonia>
8. **Garrett, R.** October 24, 2017. *For cattle farmers in the Brazilian Amazon, money can't buy happiness*. The Conversation. Cambridge, United States: <https://theconversation.com/for-cattle-farmers-in-the-brazilian-amazon-money-cant-buy-happiness-85349>.

C. TALKS and WORKSHOPS

Invited talks (last 5 years):

1. Swiss Society for Agriculture Economics and Rural Sociology, Keynote Apr. 2022
2. Colorado State University Department of Forest and Rangeland Stewardship Seminar, Apr. 2022
3. Princeton University, Conversations on the Environment, Responsible Energy, And Life Seminar Series, March, 2022 (Virtual)
4. Oxford University Centre for Tropical Forests Seminar Series, Virtual, Feb., 2022.
5. INRAE Agroecology, Innovation, and Territory, Virtual, Dec. 2021.
6. Cambridge University Geography Seminar Series, Cambridge, UK, Dec., 2021.
7. ETH Zürich Gender and Science Lecture Series, Zürich, Switzerland, Nov., 2021.
8. ETH Zürich World Food Systems Center Agroecology and the Transition to Sustainable Food Systems Public Lecture Series, Input Talk, Virtual, Nov., 2021
9. ETH Zürich Plant Science Center Symposium Patterns in Nature and Plant Science, Virtual, Dec., 2021.
10. Franklin University Switzerland Retooling Knowledge event, Keynote, September 2021, Lugano, Switzerland.
11. AgEcon Meet, Virtual, Sept. 2021.
12. Center for Comparative and International Studies Doctoral Retreat, Keynote, Virtual, July 2021.
13. ISEAL Members Week Expert input talk, Virtual, June 2021.
14. Center for Comparative and International Studies Züriberg Colloquium, Virtual, June 2021.
15. Plant Science Center Educational Retreat Going Transdisciplinary Input Talk, Virtual, Apr. 2021.
16. University of Göttingen Social and Ecological Systems in Agriculture Meeting, Virtual, Nov. 2020.
17. Newcastle University Dynamics of Coupled Human and Natural Systems Lecture Series, Virtual, Nov. 2020.
18. ETH Zürich Inaugural Lecture, Zürich, Switzerland, February 2020.
19. ETH Zürich Institute of Science, Technology, and Policy Colloquium, Zürich, Switzerland, Nov. 2019.
20. Embrapa - International Conference on Agricultural Technology Adoption, Campo Grande, Brazil. Nov. 2019.
21. Brazilian Confederation of Agriculture, Brasilia, Brazil. Nov. 2019.
22. Rutgers University McGrann Conference on Small Scale Agriculture in an Era of Global Change, Rutgers, USA, Oct. 2019.

23. ETH Zürich Uncertainty in Data-Driven Environmental Modeling Workshop, Zürich, Switzerland. Aug. 2019.
24. McGill University - Institute for the Study of Sustainable Development, Montreal, Canada. Jan. 2019.
25. Boston University Undergraduate Research Opportunities Workshop. Boston, USA. July 2018.
26. Socioenvironmental Synthesis Center - Boundary Spanning Symposium, Annapolis, USA, June. 2018.
27. ETH Zürich Environmental Policy Lectures (Job Talk), Zurich, Switzerland, May 2018.
28. University of California Irvine Earth System Science Seminar Series, Irvine, USA. Apr. 2018.
29. Agriculture and Livestock Federation of Acre, Rio Branco, Brazil, Mar. 2018.
30. Federal University of Acre, Rio Branco, Brazil, Mar. 2018.
31. Harvard University Global Food+ Symposium, Cambridge, USA. Feb. 2018.
32. Boston University Research on Tap, Boston, USA. Feb. 2018.
33. Harvard University Global Food+ Symposium, Cambridge, USA. Feb. 2017.
34. Harvard University Sustainability Science Symposium, Cambridge, USA. May 2016.
35. National Academy of Sciences Climate Resilience in the Americas Seminar, Washington D. C., USA. May 2016.
36. Gordon and Betty Moore Foundation - The Road to Zero Deforestation, Palo Alto, USA. Apr. 2016.

Additional contributions

- 17 contributed talks
- 5 invited workshops
- 12 workshops organized

D. LECTURES

ETH Zürich

Scheduled classes:

- | | |
|-------|---|
| 2019- | D-USYS - Policy and Economics of Ecosystem Services (MSc) |
| 2019- | D-USYS - Quantitative Policy Analysis and Modelling (MSc) |
| 2020- | D-USYS – Human-Environment Systems Seminar (BSc) |
| 2021- | D-GESS – Technology and Policy Analysis (CAS) |
| 2022- | D-GESS – Designing Public Policy Research (doctoral) |

Ad-hoc Lectures:

- | | |
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| 2019,2020 | D-GESS - ISTP - Bridging Science, Technology and Policy (MSc) |
| 2020 | D-GESS - NADEL - Development and Cooperation (MAS) |

Boston University

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| 2015-2019 | Dept. of Earth and Environment - Key Debates and Emerging Research in Land Change Science (MSc) |
| 2015-2019 | Dept. of Earth and Environment - Food, Energy, and Water Policy (MSc) |
| 2015-2019 | Dept. of Earth and Environment - Environmental Change and Sustainability (BSc) |

Stanford University

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| 2012 | Dept. of Earth Systems Science - Agricultural Systems in Emerging Economies. |
| 2010 | Dept. of Economics - World Food Economy, Lead TA. |
| 2010 | Dept. of Earth Systems Science - Agribusiness, Policy and Land Use Change in Brazil, TA. |

E. MENTORING ACTIVITIES

Postdoctoral scholars (7 total)

1. Juliana Gil (2015-2016) – Placement: Associate Editor, Nature Food
2. Florian Gollnow (2018-Present) – Post-doc, Boston University
3. Janina Grabs (2019-2021) – Placement: Assistant Professor, ESADE Business School
4. Federico Cammelli (2019-Present) – Post-doc, ETH Zurich
5. Mario Krauser, with Thomas Bernauer (2021-Present) – Post-doc, ETH Zurich
6. Joss Lyons-White (2021-Present) – Post-doc, ETH Zurich
7. Matthieu Stigler (2021-Present) – Post-doc, ETH Zurich

Doctoral students – Supervisor (11 total)

1. Sam Levy (2017-Present) – “Can companies end deforestation? The limitations and potential opportunities of zero-deforestation commitments in the Brazilian Amazon” *Defense date in February 2022
2. Owen Cortner (2018-Present) – “Collectives to capital: Institutional, forest, and farm transitions in the Republic of Georgia”
3. Sara Löfqist, with Jaboury Ghazoul (2019-Present) – “Assessment of funding opportunities to upscale restoration in a socially and environmentally equitable manner”
4. Rea Pärli, with Eva Lieberherr (2020-Present) – “Transdisciplinary research for sustainable development”
5. Leonie Hodel, with Jan Dirk Wegner (2020-Present) – “Novel cattle detection for improved assessment of drivers and impacts of pasture intensification in South America”
6. Laurent Giguère (2020-Present) – “Developing climate ready apple production systems in Switzerland”
7. Adelina Chandra (2020-Present) – “Assessing the effectiveness and equity of zero deforestation commitment implementation in the palm oil sector in Indonesia”
8. Joyce Brandão (2021-Present) – “Assessing the effectiveness and equity of zero deforestation commitment implementation in the soy sector in Brazil”
9. Thomas Addoah (2021-Present) – “Assessing the effectiveness and equity of zero deforestation commitment implementation in the cocoa sector in West Africa”
10. Jakob Prüss (2021-Present) – “Toward a circular plastics economy”, took over from Volker Hoffman
11. Prisca Kouakou, with Johan Six (2021-Present) – “Sustainable sourcing policies for biodiversity protection, climate mitigation, and improved livelihoods in the cocoa sector”

Doctoral students – Committee member or chair (10 total)

Antoinette van der Merwe (2021), Dennis Kolcava (2021), Simona Meiler (2021-Present), Fidel Ernesto Chiriboga Arroyo (2020), KENZA Benabderrazik (2020), Maurice Lucas Skelton (2020), Nur Hasanah (2020), Cecile Rainer (2021), Radost Stanmirova (2017-Present), Kira Sullivan Wiley (2016)

Master students - Thesis advisor or co-advisor (13 total)

Aline Hänggli (2021), Lucien Schriber (2021), Yan Palliard (2021), Longzhun Lin (2020), Sacha Rueff (2020), Tanja Schöni (2020), Barbara Mejia (2020), Catherine Pham (2020), Nathalie Pasquier (2020), Ilyun Koh (2019), Anna-Victoria Garik (2020), Gabrielle Bastien (2016), Owen Cortner (2016)

Master students - Thesis committee member (5 total)

Rodrigo Rivero Castro (2019), Veronica Lopez (2018), Fernanda Moojen (2018), Alexander Jasset (2016), Rebecca Cowing (2016)

Undergraduate students – Thesis advisor (3 total)

Lea Fabritius (2021), Francis Gould (2018), Tony Pham (2017)

F. ACQUISITION OF RESEARCH FUNDS (last 5 years)

Dates	Funding Organization	Title	Role	Co-Investigators	Amount (in kGBP)
2022-2024	Nestlé Research Program (World Food System Center)	<i>Supporting carbon neutral dairy production systems in Brazil to improve rural livelihoods and food security</i>	PI	J. Valentim (Embrapa)	331
2021-2023	ERA-NET + EJP Co-fund scheme Biodiversa	<i>Sustainable sourcing policies for biodiversity protection, climate mitigation, and improved livelihoods in the cocoa sector</i>	PI, Coord.	J. Six, J. Wegner (ETH), T. Garder (SEI), P. Meyfroidt (UC Louvain).	475
2021-2025	European Research Council Starting Grant	<i>Identifying the conditions under which forest-focused supply chain policies lead to improved conservation and livelihoods: a pan-tropical analysis</i>	PI		1731
2020-2024	ETH Grant	<i>Novel cattle detection for improved assessment of drivers and impacts of pasture intensification in South America</i>	PI (student-led)	L. Hodel, J. Dirk Wegner (ETH)	165
2020-2023	Swiss NSF Project Funding in Humanities and Social Sciences	<i>Assessing the effectiveness and equity of zero-deforestation commitment implementation in the palm oil sector</i>	PI	J. Grabs (ETH)	679
2020-2022	ETH Plant Science Center Response	<i>Developing climate ready apple production systems in Switzerland</i>	PI	G. Dow (ETH)	64
2019-2020	ETH Zurich World Food System Center	<i>Understanding stakeholder perceptions of the implementation of zero-deforestation commitments in Brazil and Indonesia</i>	CO-PI	J. Grabs, F. Cammelli (ETH)	8
2018-2019	The Jefferson Fund	<i>Enabling the adoption of agroecological integrated crop-livestock systems</i>	PI	J. Ryschawy (INRAE)	9
2018-2020	Boston University Global Development Policy Center	<i>Land Use and Livelihood Initiative</i>	PI; Assoc. Director	A. Short-Gianotti, J. Klinger (Boston U.)	86
2017-2020	NSF Geography and Spatial Sciences	<i>Assessing the influence of zero-deforestation supply chain commitments on the conservation of ecosystems.</i>	PI	K. Carlson (NYU), N. Villoria (KSU)	331
2017-2020	NASA Land Cover Land Use Change	<i>Comprehensive analysis of thirty years of land change in Georgia: patterns, carbon dynamics and driver</i>	CO-I	PI - Pontus Olofsson, C. Woodcock (Boston U.)	529
2017-2019	Catalyst Fund	<i>Assessment of integrated sheep-viticulture systems.”</i>	Collab.	R. Dynes (AgResearch NZ), M. Niles (UVM), A. Gaudin (UC Davis)	9

2016-2017	Fulbright Foundation NEXUS Regional Scholar Program	<i>Technology-based climate change impact mitigation in small coffee farms in Jamaica and Mexico.”</i>	CO-I	J. Onofre Pinto (Federal University of Mato Grosso do Sul)	8
2016-2019	National Center for Socio-Environmental Synthesis	<i>Assessing the potential influence of zero-deforestation corporate supply chain commitments on tropical land cover</i>	PI	K. Carlson (UH)	86
2016-2017	Gordon and Betty Moore Foundation	<i>Strengthening supply chain interventions for deforestation-free cattle and soy production in the Brazilian Amazon and Cerrado Biomes</i>	Collab.	H. Gibbs (UW-Madison)	25

G. SERVICE TO THE ACADEMIC COMMUNITY

Global

Panels and steering committees:

Contributing author - *United Nations Science Panel for the Amazon*, Special Report on Restoration (2022)

Research Council Member - *Evidensia* (Nonprofit institute to provide credible evidence on supply chain initiatives)

Academic Advisory Council Member - United Nations Forum on Sustainable Standards

Advisory Council Member - Transparency for Sustainable Economies Initiative, Stockholm Environment Institute

Scientific Steering Committee Member, Global Land Programme

Contributing author - *United Nations Science Panel for the Amazon*, WGV: Living and Working in Amazonia, Chapters 12 and 13 (2020)

Contributing author - *Intergovernmental Panel on Climate Change Sixth Assessment Report*, WGIII Climate Change Mitigation, Chapter 14: International Cooperation (2020-2021)

Editorial board member:

Global Environmental Change [Interim Editor Jan-July 2022], *Agricultural Systems*, *Journal of Land Use Science*, *World Development Sustainability*

Primary journals reviewed for:

Global Environmental Change; *Environmental Research Letters* (Trusted Reviewer Award – top 15% of reviews); *World Development*; *Agricultural Systems*; *Land Use Policy*; *Ecology and Society*; *Applied Geography*; *Journal of Cleaner Production*; *Global Change Biology*; *Conservation Biology*; *Nature Climate Change*

Grants reviewed:

National Science Foundation - Geography and Spatial Sciences; MIT Climate Grant Challenges

Conference abstracts reviewed:

Society for Conservation Biology - ICCB 2017; Annual conference of the Swiss Society for Agricultural Economics and Rural Sociology - SGA 2021; International Transdisciplinarity Conference ITD 2021.

ETH

- IED Ad-hoc Curriculum Committee, ETH Zürich
- D-GESS WIDE (Wellbeing, Inclusion, Diversity, Equality) Working Group Member, ETH Zürich
- “Fix the Leaky Pipeline” Mentor, ETH Zürich
- Executive Committee of the Institute of Science Technology and Policy, ETH Zürich
- Food Systems Economics and Policy Search Committee, ETH Zürich

- ET4D Committee for E4D Scholarships, ETH Zürich

Boston University

- Truman Scholarship Nomination Committee
- Faculty Council Sustainability Committee
- Department of Earth and Environment Merit Review Committee
- Human Dimensions of Global Change Faculty Search Committee
- Environmental Analysis and Policy Curriculum Assessment Committee