

YANN LE POLAIN DE WAROUX

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CV updated September 2022

1.1 CURRENT POSITION HELD

2017– present Assistant Professor (Development Geography)
Institute for the Study of International Development & Department of
Geography,
McGill University
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1.2 EDUCATION & PREVIOUS APPOINTMENT

2013-2017 Post-doctoral Scholar, Woods Institute & School of Earth, Energy and
Environmental Sciences, Stanford University

2012 Ph.D., Georges Lemaître Centre for Earth and Climate Research, UCLouvain,
Belgium.

2006 Licence (equivalent to B.Sc.), Department of Geography, UCLouvain, Belgium.

1.3 PUBLICATIONS

Symbols: Students supervised by Yann le Polain for their thesis () or as research assistants (°);
co-first authorship (†).*

1.3.1 Published peer-reviewed research articles

27. Baumann, M., Gasparri, N.I., Buchadas, A., Oeser, J., Meyfroidt, P., Levers, C., Romero-Muñoz, A., **le Polain de Waroux, Y.**, Müller, D., and Kuemmerle, T. (2022) “Frontier metrics for a process-based understanding of deforestation dynamics”. *Environmental Research Letters*. (Accepted manuscript online at <https://iopscience.iop.org/article/10.1088/1748-9326/ac8b9a>)
26. del Giorgio, O.*, Robinson, B.E., and **le Polain de Waroux, Y.** (2022) “Impacts of agricultural commodity frontier expansion on smallholder livelihoods: An assessment through the lens of access to land and resources in the Argentine Chaco”. *Journal of Rural Studies* 93: 67-80.

25. **le Polain de Waroux, Y.**[†], Garrett, R.[†], Friis, C., Hopping, K.A., Chapman, M., Hoelle, J., Hodel, L., and Zaehring, J.G. (2021) “The role of culture in land system science”. *Journal of Land Use Science* 16(4): 1–17.
24. del Giorgio, O.*, Messenger, M.L., and **le Polain de Waroux, Y.** (2021) “Fenced off: Measuring growing restrictions on resource access for smallholders in the Argentine Chaco”. *Journal of Applied Geography* 134: 102530
23. **le Polain de Waroux, Y.**, Neumann, J.°, O’Driscoll, A.°, and Schreiber, K.° (2021). “Pious Pioneers: The Expansion of Mennonite Colonies in Latin America.” *Journal of Land Use Science* 16(1): 1–17.
22. Levers, C., Romero-Muñoz, A., Baumann, M., De Marzo, A., Fernández, P.D., Gasparri, N.I., Gavier-Pizarro, G.I., **le Polain de Waroux, Y.**, Piquer-Rodriguez, M., Semper-Pascual, A., and Kuemmerle, T. (2021) “Agricultural Expansion and the Ecological Marginalization of Forest-Dependent People.” *Proceedings of the National Academy of Sciences* 118(44): 1-9
21. Lewin, A., Erinjery, J.J., **le Polain de Waroux, Y.**, Tripler, E., and Iwamura, T. (2021) “Land-Use Differences Modify Predator-Prey Interactions and Acacia Vegetation in a Hyperarid Ecosystem.” *Journal of Arid Environments* 192: 104547.
20. Fernández, P.D., **le Polain de Waroux, Y.**, Jobbágy, E.G., Loto, D.E., and Gasparri, N.I. (2020) “A Hard-to-Keep Promise: Vegetation Use and Aboveground Carbon Storage in Silvopastures of the Dry Chaco.” *Agriculture, Ecosystems & Environment* 303: 107-117.
19. **le Polain de Waroux, Y.** (2019). “Capital has no homeland: The formation of transnational producer cohorts in South America’s commodity frontiers.” *Geoforum* 105: 131-144.
18. **le Polain de Waroux, Y.**[†], Garrett, R. D.[†], Graesser, J., Nolte, C., White, C., & Lambin, E. F. (2019). “The restructuring of South American soy and beef production and trade under changing environmental regulations.” *World Development* 121: 188–202.
17. Garrett, R.D., Levy, S., Carlson, K.M., Gardner, T.A., Godar, J., Clapp, J., Dauvergne, P., Heilmayr, R., **le Polain de Waroux, Y.**, Ayre, B., Barr, R., Døvre, B., Gibbs, H.K., Hall, S., Lake, S., Milder, J.C., Rausch, L.L., Rivero, R., Rueda, X., Sarsfield, R., Soares-Filho, B., Villoria, N., (2019). “Criteria for effective zero-deforestation commitments.” *Global Environmental Change* 54: 135–147.
16. **le Polain de Waroux, Y.**, Baumann, M., Gasparri, N.I., Gavier-Pizarro, G., Godar, J., Kuemmerle, T., Müller, R., Vázquez, F., Volante, J.N. & Meyfroidt, P. (2018). “Rents, actors, and the expansion of commodity frontiers in the Gran Chaco.” *Annals of the American Association of Geographers* 108(1):204-225.
15. Iwamura, T., **le Polain de Waroux, Y.**, & Mascia, M.B. (2018) “Considering people in systematic conservation planning: insights from land system science.” *Frontiers in Ecology and the Environment* 16(7): 388-396.
14. Garrett, R. D., Koh, I., Lambin, E.F., **le Polain de Waroux, Y.**, Kastens, J.H., and Brown, J.C. (2018). “Intensification in Agriculture-Forest Frontiers: Land Use Responses to Development and Conservation Policies in Brazil.” *Global Environmental Change* 53: 233–43.

13. Meyfroidt, P., Roy Chowdhury, R., De Bremond, A., Ellis, E.C., Erb, K.-H., Filatova, T., Garrett, R.D., Grove, M., Heinemann, A., Kuemmerle, T., Kull, C., Lambin, E.F., Landon, Y., **le Polain de Waroux, Y.**, Messerli, P., Müller, D., Nielsen, J., Peterson, G., Rodriguez García, V., Schlüter, M., Turner II, B. L., Verburg, P. (2018) "Middle-range theories of land system change." *Global Environmental Change* 53: 52-56
12. Nolte, C., Gobbi, B., **le Polain de Waroux, Y.**, Piquer-Rodríguez, M., Butsic, V., & Lambin, E. F. (2018) "Challenges in attributing avoided deforestation to policies and actors: lessons from provincial forest zoning in the Argentinian Dry Chaco." *Ecological Economics* 150: 346-352.
11. Lambin, E.F., Gibbs, H., Carlson, K.L., Fleck, L., Garrett, R.D., Heilmayr, R., **le Polain de Waroux, Y.**, McDermott, C., McLaughlin, D., Newton, P., Nolte, C., Pacheco, P., Rausch, L., Streck, C., Thorlakson, T., & Walker, N. (2018) "The role of supply-chain initiatives in reducing deforestation." *Nature Climate Change* 8: 109-116.
10. Nolte, C., Gobbi, B.*, **le Polain de Waroux, Y.**, Piquer-Rodríguez, M., Butsic, V., & Lambin, E. F. (2017) "Decentralized land use zoning reduces large-scale deforestation in a major agricultural frontier." *Ecological Economics* 136: 30–40.
9. Nolte, C., **le Polain de Waroux, Y.**, Munger, J., Reis, T. N. P., & Lambin, E. F. (2017). "Conditions influencing the adoption of effective anti-deforestation policies in South America's commodity frontiers." *Global Environmental Change*, 43 : 1–14.
8. **le Polain de Waroux, Y.**, Garrett, R., Heilmayr, R., & Lambin, E.F. (2016). "Land use policies and corporate investments in agriculture in the Gran Chaco." *Proceedings of the National Academy of Science*. 113(15): 4021-4026.
7. Gasparri, N. I., Kuemmerle, T., Meyfroidt, P., **le Polain de Waroux, Y.**, & Kreft, H. (2015). "The Emerging Soybean Production Frontier in Southern Africa: Conservation Challenges and the Role of South-South Telecouplings." *Conservation Letters* 9(1): 21-31.
6. Gasparri, N. I., & **le Polain de Waroux, Y.** (2014). "The coupling of South American soybean and cattle production frontiers: new challenges for conservation policy and land change science." *Conservation Letters* 8(4): 227-241.
5. **le Polain de Waroux, Y.** & Chiche, J. (2013). "Market integration, livelihood transitions and environmental change in ecologically marginal areas: a case study from Morocco." *Human Ecology* 41(4): 535-545.
4. **le Polain de Waroux, Y.** (2013). « Dégradation environnementale et développement économique dans l'arganeraie d'Aoulouz. » *Sécheresse* 24(1): 29-38.
3. **le Polain de Waroux, Y.** (2013). "The social and environmental context of argan oil production in Morocco." *Nature Product Communications* 8(1): 1-4.
2. **le Polain de Waroux, Y.** & Lambin, E.F. (2013). "Niche commodities and rural poverty alleviation: Contextualizing the contribution of argan oil to rural livelihoods in Morocco." *Annals of the Association of American Geographers* 103(3): 589-607.
1. **le Polain de Waroux, Y.** & Lambin, E.F. (2012) "Monitoring degradation in arid and semi-arid forests and woodlands: The case of the argan woodlands (Morocco)." *Applied Geography* 32(2): 777-786.

1.3.2 Letters and commentaries in journals (not peer reviewed)

4. Kehoe, L., dos Reis, T.N.P., Meyfroidt, P., Bager, S., Seppelt, R., Kuemmerle, T., Berenguer, E., ... **le Polain de Waroux, Y.**, et al. (2020) “Commentary: Inclusion, Transparency, and Enforcement: How the EU-Mercosur Trade Agreement Fails the Sustainability Test.” *One Earth* 3(3): 268-272.
3. Kehoe, L., dos Reis, T.N.P., Virah-Sawmy, M., Balmford, A., Kuemmerle, T., ... **le Polain de Waroux, Y.**, et al. (2019) “Letter: Make EU trade with Brazil sustainable.” *Science* 364 (6438): 341.
2. Coomes, O.T., MacDonald, G. & **le Polain de Waroux, Y.** (2018) “Viewpoint: Geospatial Land Price Data: A Public Good for Global Change Science and Policy.” *BioScience* 68(7): 481-484.
1. **le Polain de Waroux, Y.**, Garrett, R. D., Heilmayr, R., & Lambin, E. F. (2016). “Letter: Reply to Levine-Schnur: Decisions to deforest illegally are influenced by fines and their perceived enforcement probability.” *Proceedings of the National Academy of Sciences*, 113(25), E3469-E3469.

1.3.3 Manuscripts currently in preparation

12. **le Polain de Waroux, Y.**, Heilmayr, R., and Vázquez, F. “Who owns Paraguay? A typology of land investment actors in the Paraguayan Chaco”.
11. Hodel, L., **le Polain de Waroux, Y.**, and Garrett, R. “The influence of culture on land systems”.
10. Shebell, E.*, and **le Polain de Waroux, Y.**, “Between Recentralization & Decentralization: Spatial planning in small cities of the Argentine Chaco.”
9. Shebell, E.*, and **le Polain de Waroux, Y.**, “Prefiguring compound crises: pandemic mobilization in the Argentine Chaco.”
8. Levers, C., **le Polain de Waroux, Y.**, Piquer-Rodríguez, M., Gollnow, F., Baumann, M., Müller, D., Kuemmerle, T., Volante, J.N., Gavier-Pizarro, G.I., Gasparri, N.I. “Scenarios of land-system change for the Gran Chaco and their implications on carbon and biodiversity”
7. Cabrol, D., Cáceres, D., Díaz, S., Harvey, B., and **le Polain de Waroux, Y.** “Co-design of research in dynamic landscapes: lessons learned from an international project on social-ecological resilience”
6. **le Polain de Waroux, Y.** and Kronenburg García, A. “Dream brokers: land dealers and the moral economy of early frontiers”
5. **le Polain de Waroux, Y.**, Carignan, M.C. °, del Giorgio, O. °, Díaz, L., Díaz, S., Enrico, L., Jaureguiberry, P., Lipoma, L., Mazzini, F., and Shebell, E. ° “Looking for socio-ecological resilience: a systematic review of empirical research”

4. Vázquez, F., **le Polain de Waroux, Y.**, de Marchi Moyano, B., Prado da Silva Fonseca, G., and Ribeiro, M.A., “Compound crises, investments, and future land use change in the Pantanal.”
3. Caldas, M., Garrett, R., **le Polain de Waroux, Y.**, et al. “Understanding the Role of Agri-Food Supply Chain Agents on Tropical Agricultural Frontier Evolution and Expansion.”
2. **le Polain de Waroux, Y.**, Levers, C., Kuemmerle, T., Baumann, M., del Giorgio, O., Gasparri, I., and Fernández, P. “Ripples in the frontiers: assessing smallholder livestock herd changes in agricultural frontiers of the Argentine Chaco”
1. Dade, M., Bonn, A., Eigenbrod, F., Felipe Lucia, M., Fisher, B., Goldstein, N., Holland, R., Hopping, K., Lavorel, S., **le Polain de Waroux, Y.**, Macdonald, G., Mandle, L., Metzger, J.P., Pascual, U., Rieb, J., Vallet, A., Wells, G., Ziter, C., Bennett, E., and Robinson, B. “Landscapes as a lens for assessing sustainability.”

1.3.4 Book Chapters

1. **le Polain de Waroux, Y.** (2019) “Livelihoods through the lens of telecoupling.” In: Telecoupling: Exploring Land-Use Change in a Globalised World. Nielsen, J.Ø. and Friis, C., Editors. Palgrave Macmillan.

1.3.5 Theses

2. **le Polain de Waroux, Y.** (2012). “Social and ecological change in the argan woodlands, Morocco.” Thèse de doctorat en sciences (PhD Thesis), UCLouvain, supervisor: Prof. E.F. Lambin.
1. **le Polain de Waroux, Y.** (2006). “Understanding livelihood choices around the Maasai-Mara National Reserve, Kenya: a statistical analysis using bivariate probit regression.” Mémoire de Licence en géographie (Undergraduate Thesis), UCLouvain, supervisor: Prof. E.F. Lambin.

1.3.6 Conference proceedings

2. Meyfroidt, P., Bruggeman, D., Jadin, I., **le Polain de Waroux, Y.** & Lambin, E.F. (2013). “Global transition towards forest restoration and sustainable land uses.” Actes du Premier Congrès sur le Développement Durable, Namur (Belgium), 31 January 2013 - 2 February 2013.
1. **le Polain de Waroux, Y.** & Lambin E.F. (2011). « La dégradation de l’arganeraie et ses causes dans la province de Taroudant. » Actes du Premier Congrès International sur l’Arganier, Agadir, 15-17 December 2011.

1.3.7 Policy briefs

3. Nolte, C., Gobbi, B.*, **le Polain de Waroux, Y.**, Piquer-Rodríguez, M., Butsic, V. and Lambin, E.F. (2018). “Understanding policy impact amidst controversy: Lessons from forest zoning in Argentina”. Global Governance Lab Policy Brief. Montreal, Canada: Institute for the Study of International Development, McGill University.
2. Garrett, R., Lambin, E.F., and **le Polain de Waroux, Y.** (2017). “To eliminate deforestation in South America, reduce differences in regulations across regions and actors.” ISID Policy Brief (published in Spanish and English). Montreal, Canada: Institute for the Study of International Development, McGill University.
1. Nolte, C., Gobbi, B.*, **le Polain de Waroux, Y.**, Piquer-Rodríguez, M., Butsic, V., & Lambin, E. F. (2017) “La ley de bosques redujo las tasas de deforestación en las provincias de Salta, Chaco y Santiago del Estero.”

1.3.8 Article translated for dissemination

6. del Giorgio, O.*, Robinson, B.E., and **le Polain de Waroux, Y.** (2022) “Impactos de la expansión de las fronteras agropecuarias en los medios de vida de los pequeños productores: una evaluación desde la perspectiva del acceso a la tierra y los recursos en el Chaco argentino” [Spanish]
5. del Giorgio*, O., Messenger, M.L., and **le Polain de Waroux, Y.**, (2021). “Alambrados: Midiendo las crecientes restricciones al acceso a los recursos para pequeños productores en el Chaco Argentino” [Spanish]
4. **le Polain de Waroux, Y.**, (2021). Neumann, J.º, O’Driscoll, A.º, and Schreiber, K.º (2021). “Pioneros piadosos: La expansión de las colonias menonitas en América Latina.” [Spanish]
3. **le Polain de Waroux, Y.**, (2021). Neumann, J.º, O’Driscoll, A.º, and Schreiber, K.º (2021). “Fromme Pioniere: Die Expansion mennonitischer Kolonien in Lateinamerika.” [German]
2. **le Polain de Waroux, Y.** (2019). “El capital no tiene patria: La formación de cohortes transnacionales de productores en las fronteras de commodities de Sudamérica.” [Spanish]
1. **le Polain de Waroux, Y.**, Baumann, M., Gasparri, N.I., Gavier-Pizarro, G., Godar, J., Kuemmerle, T., Müller, R., Vázquez, F., Volante, J.N. & Meyfroidt, P. (2018). “Rentas, actores y la expansión de las fronteras de commodities en el Gran Chaco.” [Spanish]

1.4 RESEARCH FUNDING

1.4.1 External grants and awards

2022-2026 **Sole PI:** Social Sciences & Humanities Research Council of Canada (SSHRC) Insight Grant: “Understanding access to natural resources and livelihood resilience in agricultural frontiers of the Paraguayan Chaco.” (\$99,970, four years)

- 2022-2023 **Co-PI:** New Frontiers in Research Fund – Rapid Response 2021. “From carbon to forests for life: Towards sustainable Indigenous engagement”. Nominated PI: Catherine Potvin, McGill University (**\$237,140**, funds intended to support project coordination and partners in Panama)
- 2019-2022 **Co-PI:** Interamerican Institute for Global Change Research (IAI) Small Grant program: The Role of Ecosystem services in Adaptation to Global Change for Human Beings. “Socio-ecological resilience in the face of global environmental change in heterogeneous landscapes – building a common platform for understanding and action”. Nominated PI: Sandra Díaz. (**\$46,000** / \$35,815 USD to le Polain from \$257,000 / \$ 200,000 USD, two years with no-cost one-year extension).
- 2018-2022 **Sole PI:** Fonds de recherche du Québec – Société et culture (FRQSC) Soutien de Recherche à la Relève Professorale: “Effects of advancing agricultural frontiers in the 21st century on household migrations and livelihoods in the South American Gran Chaco.” (**\$57,150**, three years with no-cost one-year extension).
- 2018-2022 **Sole PI:** Social Sciences & Humanities Research Council of Canada (SSHRC) Insight Development Grant: “Uncovering social and economic transformations in deforestation frontiers of the South American Gran Chaco.” (**\$70,000**, two years with no-cost two-year extension).
- 2015-2017 **Co-PI/Collaborator:** Gordon and Betty Moore Foundation (GBMF). “Supply chain and policy instruments to enable the reduction of deforestation in South America”. Nominated PI: E.F. Lambin (Stanford University). (\$708,000 / \$551,000 USD, of which **\$167,000** / \$130,000 USD used towards my postdoctoral salary for two years).

Note: I was listed as collaborator on this grant despite my role as co-PI on the project because postdoctoral scholars could not be listed as co-PIs.

1.4.2 Internal grants and awards

- 2021 McGill Internal Social Sciences and Humanities Development Grant: “Religious conservatism and land-use choices among Latin American Mennonites” (**\$7,000**).
- 2020 MacDonald, Curie Professional Development Award (**\$1,500**).
- 2019-2020 McGill Sustainability Systems Initiative (MSSI) Pitch or Enrich program. “Mennonite land use history and landscape sustainability in Latin America” (**\$10,000**).
- 2019 MacDonald, Curie Professional Development Award. (**\$1,500**)
- 2018 MacDonald, Curie Professional Development Award. (**\$ 1,500**).
- 2018 McGill Internal Paper presentation grant (**\$1,500**).

1.4.3 PhD and Postdoctoral funding

- 2013-2015 Ishiyama Foundation. Two-year Postdoctoral fellowship (\$139,000 / \$108,000 USD).
- 2008-2012 Fonds pour la Recherche dans l'Industrie et l'Agriculture (FRIA, Belgium). Four-year PhD fellowship (\$105,000 / € 75.000).
- 2013-2014 Morrison Institute for Population and Resource Studies Award, Stanford University. Support for fieldwork (\$12,850 / \$5.000 USD).
- 2008-2012 Fonds pour la Recherche dans l'Industrie et l'Agriculture (FRIA, Belgium). Support for fieldwork (\$14,000 / € 10.000).

1.4.4 Grants as a collaborator (no direct financial contributions to me)

- 2021-2023 NASA LCLUC Program. Early Career Grant. "Mapping property values to understand land-use change in South America". PI: Robert Heilmayr, University of California, Santa Barbara (\$450,000 USD).
- 2021-2026 European Research Council. Consolidator Grant. "Shifting to a Land Systems Paradigm in Conservation". PI: Tobias Kuemmerle, Humboldt University Berlin (€2,000,000).
- 2019-2020 National Geographic. Early career grant. "Coffee fungus: The new threat to biodiversity conservation in the coffee forests of Mesoamerica". PI: Vivian Valencia, University of Wageningen (\$7,650 USD).
- 2016-2021 European Research Council (ERC). Starting Grant: "Developing middle-range theories linking land use displacement, intensification and transitions". PI: Patrick Meyfroidt, UCLouvain (€1,500,000).
- 2015-2018 German Ministry of Education and Research (BMBF). "Pathways to sustainable land management in Northern Argentina". PI: Tobias Kümmerle, Humboldt University Berlin (€ 490,000).
- 2016-2018 National Center for Socio-Environmental Synthesis (SESYNC). "Assessing the potential influence of zero-deforestation corporate supply chain commitments on tropical land cover". PIs: Rachael Garrett, Boston University, and Kim Carlson, Hawaii University (\$50,000 USD).

1.4.5 Consultancies

- 2020-2021 World Wildlife Fund Paraguay. "Economic Study and General Analysis of the Economic and Social Context of the Pantanal and future scenarios of investment in infrastructure (Brazil, Bolivia and Paraguay)." Lead PI: Fabricio Vázquez (National University of Asunción).

1.5 PRESENTATIONS, LECTURES, AND MEDIA

1.5.1 Conference presentations

- “Patterns of Selection: Religion and Culture in Mennonite Land Use Throughout the Americas”. Presentation at the Center for Transnational Mennonite Studies conference “Departing Canada, Encountering Latin America: Reflections on the Centenary of Mennonite Emigration from Canada to Mexico and Paraguay”. Winnipeg, Manitoba, Canada, 21-22 October 2022
- “Ripples in the frontier: changing livelihoods of forest-based households amidst a shrinking resource base in the Argentine Gran Chaco.” Presentation at the Conference of Latin American Geography. Antigua Guatemala, Guatemala, 2-4 January 2020.
- “Transnational land investments and the formation of ‘producer cohorts’ in South America’s commodity frontiers.” Presentation at the Global Land Programme Open Science Meeting. Bern, Switzerland, 14-16 April 2019.
- “Rents, actors, and the expansion of commodity frontiers in the Gran Chaco.” Presentation at the 35th Conference of Latin Americanist Geographers. San José, Costa Rica, 21 May 2018.
- “Políticas ambientales y desplazamiento de la deforestación en fronteras agrícolas del Gran Chaco y de Sudamérica. Presentation at the Second International Congress of the American Gran Chaco.” Santiago del Estero (Argentina), 5-6 October 2017.
- “Deforestation Leakage in the South American Gran Chaco: an Empirical Study of Company Choices.” Presentation at the 9th IALE World Congress, Portland, July 9, 2015.
- “Environmental regulations and company movements on the Gran Chaco’s deforestation frontiers.” Presentation at the AAG meeting, Chicago, April 23, 2015.
- “La dégradation de l’arganeraie et ses causes dans la province de Taroudant.” Presentation at the Congrès International sur l’arganier. Agadir (Morocco), December 15-17, 2011.

1.5.2 Invited seminars

- “Pious Pioneers: Mennonite land-use dynamics in Latin America.” Presentation at the Amish and Plain Anabaptist Studies Association, University of Washington, USA (online). 13 May 2022.
- “Estudiar los cambios de cobertura y usos del suelo.” Presentation at the National University of Asunción (Chaco campus), Filadelfia, Paraguay, 26 June 2019.
- “Inversiones transnacionales en tierras y la formación de cohortes de productores en las fronteras agrícolas de Sudamérica.” Presentation at the National University of San Martín, Buenos Aires, Argentina, 20 May 2019.
- “Cambios de cobertura y usos del suelo en el mundo y en el Gran Chaco.” Presentation as part of the Week of the Environment in Nueva Pompeya, Chaco, Argentina, 3 June 2019.
- “Anticipating and regulating land investments and deforestation in South American commodity frontiers.” Presentation at the Centre for Development and Environment, Bern University

(Switzerland), 29 March 2017.

“Actors, policies and sustainability in South American deforestation frontiers.” Presentation for the Symposium on Earth System Science of the Department of Geography, University of Zurich (Switzerland). 30 January 2017.

“Políticas de uso del suelo e inversión corporativa en el Gran Chaco.” Presentation at Universidad del Rosario, Bogotá, Colombia, 27 July 2016.

“Políticas de uso del suelo e inversión corporativa en el Gran Chaco.” Presentation at Universidad de los Andes, Bogotá, Colombia, 26 July 2016.

“Agribusiness Development in the Gran Chaco.” Presentation at WWF Berlin (Germany), December 12, 2013.

« Changement social et écologique dans l’arganeraie. » Presentation at CIRAD, Montpellier, September 17, 2012.

“Pathways of social-ecological change in the argan forest: an integrated approach.” Presentation at IAV Hassan II, Rabat (Morocco), December 23, 2011.

« Les conséquences de la “consom’action” à travers l’exemple de l’huile d’argan et du café certifié colombien. » Presentation at Midis du développement Durable, AGL/MDD, Louvain-la-Neuve, November 9th, 2011.

« L’utilisation de SIG pour la détection du changement dans une forêt aride du Sud du Maroc. » Presentation at Les systèmes d’information géographique dans les pays en voie de développement. ULB Brussels, November 3-4 2011.

1.5.3 Department and university seminars at McGill University

“Pious Pioneers: Mennonite colonies in Latin America.”. GeoSpectives seminar series, Department of Geography, McGill University, Montreal, Canada. 16 October 2020.

“Capital has no homeland – and neither does faith”. Sun and Science talk, McGill University, Montreal. 9 July, 2020.

“Land, environment and development: Understanding how people use land, and what means for environmental sustainability and development” Soup and Science talk, McGill University, Montreal. 21 September 2018.

“A mediocre presentation about designing a good presentation.” Campfire talk series, Department of Geography, McGill University, Montreal. 19 March, 2018.

“The displacement of deforestation by new environmental regulations in the South American Gran Chaco.” Presentation at the Institute for the Study of International Development, McGill University, Montreal, Canada, 11 January 2018.

1.5.4 Presentations at professional meetings

“The restructuring of South American soy and beef production and trade under changing environmental regulations.” Presentation at the workshop *Land use spillover and leakage*

effects: Towards integrating concepts, empirical methods, and models. Berlin (Germany), 9 November, 2017.

“Deforestation Leakage in the South American Gran Chaco: implications for sustainable supply chains.” Presentation at the workshop *Improving conservation outcomes from supply-chain interventions*, Palo Alto, California, USA, April 20-22, 2016.

“Displacement of deforestation in the Gran Chaco woodlands.” Presentation at the workshop *Operationalization of telecoupling concepts for Land System Science*, Aeschi, Switzerland, December 1-3, 2014

1.5.5 Book launches

Introduction to the book “Beyond Greenwash” by Hamish van der Ven. Paragraphe Bookstore, Montreal, October 17, 2019.

1.5.6 Media coverage of research

Strochlic, N. “Culture Clash: Maya Beekeepers in Mexico See Their Way of Life Threatened by Rapidly Growing Mennonite Farms.” *National Geographic*, June 2021. Note: This article contained information facilitated by me based on the paper “Pious pioneers...” in the text, as well as a map based on the data published in that paper.

“Across Latin America, Mennonites Seek out Isolation at the Expense of Forests,” *Mongabay Environmental News*. December 15, 2021. Note: I was interviewed off the record for this article, because I was concerned about the way the tone of the article might affect my ability to continue research with Mennonite communities.

The McGill Tribune. “No Such Thing as Empty Land: Agricultural Expansion and Displacement in South America’s Gran Chaco Region,” November 30, 2021.

Mazzeo, Claudia. “Gran Chaco: Producción de Soja Atenta Contra Pequeños Productores.” *SciDev.net* (blog), November 8, 2021.

Amaral, Ana Carolina. “Acordo UE-Mercosul falha em critérios de sustentabilidade, diz estudo.” *Folha de S.Paulo*, September 9, 2020.

O’Sullivan, K. “Mercosur Accord Contradicts EU Green Deal and Fails to Protect Communities, Study Says.” *The Irish Times*. September 9, 2020.

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“Cientistas pedem revisão do acordo Mercosul-UE” *Deutsche Welle*. September 9, 2020.

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- “Debaten posturas sobre cambios de cobertura y uso de suelo en el Chaco,” *RCC Noticias*. Filadelfia, Paraguay, June 27, 2019.
- Giesbrecht, K. “Sogar in Quebec Interessiert Man Sich Für Mennoniten.” *Mennonitische Post*, September 20, 2019.
- “Zero-Deforestation Pledges Need Help, Support to Meet Targets, New Study Finds,” *Mongabay Conservation news*. February 1, 2018.
- Global canopy. “Weak by Design: Company Commitments Fall Short on Deforestation.” *Medium* (blog), February 1, 2018.
- “Se disciplina a las cachetadas” *Cuarto Poder*. Salta, Argentina, April 1, 2017.
- “Políticas de controle do desmate dependem da fatia do agronegócio no PIB,” *IPAM Amazônia*. February 15, 2017.
- To save South America’s forests harmonize tough environment rules. *Reuters*. Toronto, March 28, 2016.
- Frenar la deforestación requiere una armonización geográfica de las políticas y regulaciones. *La Nación*. Asunción, Paraguay, 29 March 2016.
- Deforestación y leyes flojas. *ABC Color*. Asunción, Paraguay, 30 March 2016.
- Stanford ve desplazamiento de la deforestación en 4 países. (2016). *La Razón*. La Paz, Bolivia, 17 April, 2016.
- Fonseca, Vandr . “Com leis diferentes, desmatamento s  muda de lugar.” ((o))eco (blog), March 31, 2016.
- “Inconsistent Rules Lead to Larger Deforestation.” *Buenos Aires Herald*, April 8, 2016.
- “Los bosques de Gran Chaco y Chiquitano que abarca Argentina.” *La Mañana*. April 17, 2016.
- “Falta de regulaci n entre Bolivia y sus vecinos incrementa la deforestaci n.” *P gina Siete*. March 3d, 2016

1.6 TEACHING AND SUPERVISION

1.6.1 Courses taught

- GEOG210 “Global Places and Peoples”
Co-instructor (1/2), W2018, W2019, W2020, W2021, W2022
- GEOG310 “Development and Livelihoods”
Co-instructor (1/3), W2018, W2019, W2020
- GEOG631 “Methods of Geographical Research”
Co-instructor (1/2), F2020-W2021, F2021-W2022
- GEOG498 “Humans in tropical environments” (field course in Panama)
Accompanying instructor, W2020 (training to teach it in later years)

~~Sole instructor, W2022~~ *Cancelled in December 2021 due to pandemic resurgence*

- INTD360 “Environmental Challenges in Development”
Sole instructor, W2020, W2021, W2022
- INTD497 “Understanding Land Use and Land Cover Change”
Sole instructor, W2018, F2018, W2019, F2019
- INTD657 “Development Studies Seminar”
Sole instructor, F2020, F2021, F2022
- EESS270 “Analyzing land use in a globalized world” (*at Stanford University*)
Co-instructor (1/3), SP2015, SP2016

1.6.2 Guest lectures & interventions

- LACS497 “Impacts of migration in Latin America”, McGill University (W2021)
- HST1305 « Histoire Générale de l’Amérique Latine », Université Laval (W2021)
- GEOG495 “Field Studies in Physical Geography”, McGill University (W2020)
- HES 400 “Foundations in Human-Environment Systems Science”, Boise State University (F2020 & F2021)
- GEOG631 “Methods of Geographical Research”, McGill University (F2017, F2019)
- INTD200 “Introduction to International Development”, McGill University (F2017)
- INTD657 “Development studies seminar”, McGill University (F2017, F2019)
- ES10 “Introduction to Earth Systems”, Stanford University (F2016)

1.6.3 Undergraduate Honours supervision

2022-	Aris Kalofoutis	B.A. Hons. Geography
2021	Lucy MacKinnon	B.A. Hons. International Development Studies
2020-2021	Anna O’Driscoll	B.Sc. Hons. Geography (co-supervision)
2019	Marine Loison	B.A. Hons. International Development Studies
2018	Sydney Kreimes	B.A. Hons. International Development Studies

1.6.4 Other undergraduate supervision

2021	Wanrong Huang (B.Sc.)	GEOG291 – Indept. Short Project (Geography)
2019	Chantal Ménard (B.Sc.)	AEMA403 - Environmetrics Stage (Environment)
2019	Otilia Scott (B.A.)	INTD499 - Arts Internship in Intl. Dev. (ISID)

2018	Kana Yokoji (B.A.)	INTD490 - Development Field Research (ISID)
2018	Sandrine Royer (B.A.)	INTD499 - Arts Internship in Intl. Dev. (ISID)
2018	Teneille Arnott (B.A.)	INTD499 - Arts Internship in Intl. Dev. (ISID)

1.6.5 Graduate supervision

COMPLETED

Olivia del Giorgio (M.Sc., Geography, 2018-2020)

Thesis: “Investigating smallholder access to land and resources and its effects on livelihoods in a commodity frontier of South America”

Beatriz Gobbi (M.Sc., Geography, 2013-2015, *Co-supervision with E. Lambin at UCLouvain*)

Thesis: “Le Chaco Argentin et la gouvernance environnementale: Évaluation de l’efficacité de la Loi Forestière dans le contrôle de la déforestation”

François Dambly (M.Sc., Geography, 2010-2012, *Co-supervision with E. Lambin at UCLouvain*)

Thesis: “Analyse rétrospective des migrations issues de la commune d’El Faïd (Maroc): aspects spatiaux et facteurs de risque”

IN PROGRESS

Olivia del Giorgio (Ph.D., Geography, 2021-)

Tentative thesis title: “Developing an approach to assess the extent and impacts of agricultural commodity frontiers at different stages of their expansion through the analysis of land control dynamics”

Marie-Claude Carignan (M.Sc., Geography, 2021-)

Tentative thesis title: “A Sustainable Livelihoods Approach to Carbon Leakage in Local-scale REDD+ Project”

Patrice Matthews (M.Sc., Geography, 2020-)

Tentative thesis title: “Spatial-temporal dynamics of surface water availability and access in the Pilcomayo basin of the Gran Chaco”

Elizabeth Shebell (M.A., Geography, 2019-)

Thesis title: “Future visions and frontier divisions: prefigurative social movements & recentralized planning in the Gran Chaco, Argentina”.

UPCOMING

Patrice Matthews (PhD., Geography, starting Winter 2023)

Michelle Hahn-Baker (M.A. student, Geography, co-supervised with Graham MacDonald, starting Fall 2022)

1.6.6 Graduate and Undergraduate research Assistants

2022	Juliette Mennicken	B.A., McGill	Unpaid RA-ship
2021-2022	Isabel Klassen,	B.A., McGill	Paid RA-ship
2021-2022	Lucia Stroetzel	B.A., McGill	Paid RA-ship
2021-2022	Olivia del Giorgio	Ph.D., McGill	Paid RA-ship
2020-2021	Janice Neumann	Ph.D., McGill	Paid RA-ship
2020-2021	Kerstin Schreiber	Ph.D., McGill	Paid RA-ship
2020-2021	Marie-Claude Carignan	B.A.-B.Sc./M.Sc., McGill	Paid RA-ship
2020-2021	Wanrong Huang	BSc, McGill	Paid RA-ship
2020	Elizabeth Shebell	M.A., McGill	Paid RA-ship
2018-2019	Tristan Grupp	BSc, McGill	Paid RA-ship
2019	Dara Salih	B.A., McGill	Unpaid RA-ship
2019	Ammar Addenwala	B.A., McGill	Paid RA-ship

1.6.7 Visiting students and scholars

Diego Cabrol, Post-Doctoral researcher, visiting from National University of Córdoba, Argentina, June-July 2019 and November-December 2021.

Pedro Fernández, PhD candidate, visiting from National University of Tucumán, Argentina, planned visit March-April 2020, postponed and then cancelled due to the pandemic.

Christian Levers, Post-Doctoral researcher, visiting from University of British Columbia, Canada, August 2019.

Victoria Junquera, PhD candidate, visiting from ETH Zürich, Switzerland, March-June 2019.

Vivian Valencia, Post-Doctoral researcher, visiting from Würzburg University, Germany.

1.6.8 Graduate student committee membership

2021-	E. Gleeson, M.Sc., Department of Geography, McGill
2021-	M.L. Araujo Raurau, M.A., Department of Geography, McGill
2020-	N. Parent, Ph.D., Department of Geography, McGill
2020-	P. Slack, Ph.D., Department of Geography, McGill
2018-	M. Monnerat, Ph.D., Department of Geography, McGill
2018-	J. Langill, Ph.D., Department of Geography, McGill
2019-2021	V. Junquera, Ph.D., ETH Zürich, Switzerland
2017-2019	P. Slack, M.A., Department of Geography, McGill

1.7 SERVICE

1.7.1 Department of Geography

COMMITTEE MEMBERSHIP

- 2018- Co-Chair of GeoSpectives speaker series
Organized or co-organized 37 talks and hosted 3.
- 2018- Humanities library liaison for the Department of Geography

EXAMINATION COMMITTEES

- 2022 Ph.D. Examination committee member, N. Eidse
- 2022 Ph.D. Comprehensive Examination, H. Brais
- 2021 B.A. Honours thesis reader, R.F. Wang.
- 2021 Ph.D. Examination committee member, D. Burbano
- 2021 Ph.D. Comprehensive Examination, D. Dong
- 2020 Ph.D. Comprehensive Examination, N. Parent
- 2020 B.A. Honours Internal examiner, M. Cheng
- 2020 Ph.D. thesis/defence internal examiner, PhD, E. Galappaththi
- 2020 M.Sc. Internal examiner, L. Zhou
- 2019 Ph.D. Comprehensive Examination, S. McCourt
- 2019 Ph.D. Comprehensive Examination, J. Langill
- 2019 Ph.D. Comprehensive Examination, M. Monnerat
- 2018 M.A. Internal examiner, A. Solberg
- 2018 M.Sc. Internal examiner, L. Wustenberg

1.7.2 Institute for the Study of International Development

- 2021- ISID representative for the Faculty of Arts Committee on Student Affairs
- 2020- Member of the Development Studies Option admission committee
- 2019- Review mentor for the IDS Student Association “Chrysalis” journal
- 2018- Chair of ISID speaker series
Organized or co-organized 39 talks and hosted 10; organized student talk series and podcast in F2021 & F2022; coordinated “spotlight on Professors of Practice” video series)
- 2018-2019 Member of the Hirschmann prize for best paper committee, ISID

1.7.3 University

- 2021- Member of the LACS (Latin America & Caribbean Studies) Advisory committee
- 2020- Member and delegated reviewer of the Research Ethics Board 1
- 2018 Faculty Marshall for Arts 'A' Convocation

1.7.4 Other service and activities

EXAMINATION COMMITTEES AT OTHER UNIVERSITIES

- 2021 External examiner, V. Rodriguez Garcia, Earth and Life Institute, UCLouvain, Belgium
- 2020 External examiner, PhD, V. Junquera, ETH Zürich, Switzerland

REFERENCE LETTERS FOR STUDENTS

I have written a total of 82 reference letters for students at McGill and beyond since starting at McGill (for graduate school, grant, and job applications).

PEER REVIEW AND EDITORIAL ACTIVITIES

- 2012- **Conducted a total of 54 article reviews** of 45 manuscripts for peer-reviewed journals including *Global Environmental Change*; *Annals of the American Association of Geographers*; *Land Use Policy*; *World Development*; *Applied Geography*; *Nature Sustainability*, *Plos One* and others.
- 2018-2019 **Review editor** for *Frontiers in Sustainable Food Systems: Livelihoods and Food Security*.
- 2018 **Reviewer** of abstracts for the Global Land Programme Open Science Meeting conference 2019.

FUNDING COMMITTEES AND GRANT REVIEWS

- 2021 & 2022 Reviewer (*Évaluateur*) for FRQSC Graduate Scholarships
- 2020-2022 Reviewer for the McGill NSERC CGS-Doctoral Evaluation Committee
- 2017 Reviewer for a National Science Foundation grant (US).

ORGANIZATION OF CONFERENCE SESSIONS

- 2019 **Co-organizer** of two presentation sessions at the Global Land Programme Open Science Meeting conference 2019:
 - “Land systems for conservation science”, co-organized with Tobias Kümmerle (HU Berlin)

“The role of culture in Land-Use Change”, co-organized with Rachael Garrett (ETH Zürich), Bern, Switzerland, April 14-16, 2019.

PARTICIPATION IN SCIENTIFIC SYNTHESIS ACTIVITIES

- 2021 McGill Sustainability Systems Initiative (MSSI). “The future of indicators for assessing landscape sustainability”. Online, May 3-5 and October 6-8.
- 2021 Global Land Programme (GLP). “Remittances & Land Use Change”. Online, March 8-9.
- 2020 The National Academies of Science, Engineering and Medicine (NAS, USA). Progress, Challenges, and Opportunities for Sustainability Science. Online, Nov. 30-Dec. 2.
- 2018 National Center for Socio-Environmental Synthesis (SESYNC). “Assessing the potential influence of zero-deforestation corporate supply chain commitments on tropical land cover”, second meeting, Annapolis, Maryland, June 25-26.
- 2018 Global Development Policy Center, Boston University. “Land Use and Livelihoods Initiative Workshop”, Boston, Massachusetts, May 4th.
- 2018 McGill Sustainability Systems Initiative (MSSI). Empirical approaches to assessing landscape sustainability. Montreal, June 1st.
- 2017 ZEF/UCL/SDSN. “Land use spillover and leakage effects”. Berlin, Germany, Nov. 9-10.
- 2017 Global Land Programme. “Developing theories in land change / system science”. Weggis, Switzerland, March 29-31.
- 2016 National Center for Socio-Environmental Synthesis (SESYNC). “Assessing the potential influence of zero-deforestation corporate supply chain commitments on tropical land cover”, Annapolis, Maryland, Nov. 2-4.
- 2016 Gordon and Betty Moore Foundation. “Improving conservation outcomes from supply-chain interventions”, Palo Alto, California, USA, April 20-22.
- 2014 Global Land Programme. “Towards operationalization of telecoupling concepts for land system science”. Aeschi, Switzerland, December 1-3.