



Danilo Ignacio de Urzedo

ENVIRONMENTAL GEOGRAPHY & TROPICAL FORESTRY

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Professional Summary

Publications: 3 books; 6 book chapters; 7 peer-reviewed articles; 40 conference publications.

Research grants: Awarded >US\$4M in funding. **Citation metrics:** Citations = 96 (top cited article = 37); h-index = 4.

Education

- 2020 **Ph.D. in Human Geography, the University of Sydney (submitted March 2020)**
Thesis: Governance of forest landscape restoration in the Brazilian Amazon
Scholarship: The University of Sydney Postgraduate Research
- 2014 **M.Sc. in Tropical Forest Conservation, University of São Paulo & North Carolina State University**
Dissertation: Socioeconomic of forest seed supply in the Upper Xingu region, Brazilian Amazon
Scholarship: São Paulo Research Foundation
- 2011 **Bachelor of Forest Engineering, Federal University of São Carlos**
Dissertation: Greenhouse gases emissions in tropical forestry
Scholarship: São Paulo Research Foundation

Publications

Refereed journal articles

- 2020 **URZEDO, D.I., NEILSON, J., FISHER, R., JUNQUEIRA, R.G.P. (2020), A global production network for ecosystem services: The emergent governance of landscape restoration in the Brazilian Amazon, *Global Environmental Change* doi: 10.1016/j.gloenvcha.2020.102059**
- 2020 **DE URZEDO, D.I., PIÑA-RODRIGUES, F. C., FELTRAN-BARBIERI, R., JUNQUEIRA, R. G., FISHER, R. (2020), Seed Networks for Upscaling Forest Landscape Restoration: Is it Possible to Expand Native Plant Sources in Brazil?, *Forests* doi: 10.3390/f11030259**
- 2019 **DE URZEDO, D.I., FISHER, R., PIÑA-RODRIGUES, F. C., FREIRE, J. M. AND JUNQUEIRA, R. G. (2019), How policies constrain native seed supply for restoration in Brazil, *Restoration Ecology* doi:10.1111/rec.12936**
- 2019 **SCHMIDT, I.B., DE URZEDO, D.I., PIÑA-RODRIGUES, F.C.M., VIEIRA, D.L. M., DE REZENDE, G. M., SAMPAIO, A.B.; JUNQUEIRA, R.G.P. (2019), Community-based native seed production for restoration in Brazil – the role of science and policy, *Plant Biology* doi: 10.1111/plb.12842**
- 2016 **URZEDO, D.I., VIDAL, E., SILLS, E.O., PIÑA-RODRIGUES, F.C.M., JUNQUEIRA, R.G.P. (2016), Tropical forest seeds in the household economy: effects of market participation among three sociocultural groups in the Upper Xingu region of the Brazilian Amazon, *Environmental Conservation* doi: 10.1017/S0376892915000247**
- 2014 **CARMO, J.B., URZEDO, D.I., FERREIRA FILHO, P.J., PEREIRA, E.A., PITOMBO L.M. (2014), CO2 emission from soil after reforestation and application of sewage sludge, *Bragantia* doi: 10.1590/1678-4499.0093**
- 2013 **DE URZEDO, D.I., FRANCO, M.P., PITOMBO, L.M., DO CARMO, J.B. (2013), Effects of organic and inorganic fertilizers on greenhouse gas (GHG) emissions in tropical forestry, *Forest Ecology and Management* doi: 10.1016/j.foreco.2013.08.018**

Books

- 2017 **URZEDO, D.I.**, SILVA, R.R.P., SA, D., HARARI, I. Intercultural climate change research in the Xingu-Araguaia region (O que será de nossas sementes?: pesquisa intercultural sobre as mudanças climáticas no Xingu-Araguaia). 1. ed. São Paulo: Instituto Socioambiental, 2017. 62p. [ISBN: 978-85-8226-046-3](#)
- 2017 SILVA, R. R. P., **URZEDO, D.I.**, Bensusan, N. Forestation: The game of Biodiversity (Floresta: biodiversidade em jogo). 1. ed. São Paulo: Instituto Socioambiental, 2017. v. 24. [ISBN: 9788582260456](#)
- 2014 COSTA, J.N.M.N., PIÑA-RODRIGUES, F.C.M., **URZEDO, D.I.**, ANDRADE, S. D. O.; JUNQUEIRA, R.G.P. Collect, process and store seeds of the Xingu region (Coletar, manejar e armazenar as experiências da Rede de Sementes do Xingu). 1. ed. São Paulo: ISA, 2014. v. 1. 96p. [ISBN: 14-05647](#)

Book Chapters

- In Press PIÑA-RODRIGUES, F.C.M., EULER, A.M.C., FREIRE, J.M., LIMA JUNIOR, M, MENDES, A.M.S., SANDIM, A.S.A., FRANCO, D.O., **URZEDO, D.I.** Native forest seeds as an income generator within the Forest Landscape Restoration chain. In: Cindy Precott; Severino Ribeiro; Fabiane Santos. (Eds). Forest Landscape Restoration and Social Opportunities in the Tropical World. Vancouver, Canada: University of British Columbia Press, (In Press, accepted August 2020).
- In Press SAMPAIO, A.B, SCHMIDT, I.B., **URZEDO, D.I.**, CORTES, C.A. Cerrado de Pé Association: community engagement promoting ecological restoration and local livelihoods in the Neotropical savanna. In: Cindy Precott; Severino Ribeiro; Fabiane Santos. (Eds). Forest Landscape Restoration and Social Opportunities in the Tropical World. Vancouver, Canada: University of British Columbia Press, (In Press, accepted August 2020).
- 2020 **DE URZEDO, D. I.**, FISHER, R., SÁ, D., & JUNQUEIRA, R. (2020). Indigenous Participation in the Native Seed Market: Adapting Ethnic Institutions for Ecological Restoration in the Southeastern Amazon. In L. F. W., K. V., & B. de L. I. (Eds.), *Indigenous Amazonia, Regional Development and Territorial Dynamics. The Latin American Studies Book Series* (pp. 287–309). Springer. https://doi.org/10.1007/978-3-030-29153-2_12
- 2018 PINA-RODRIGUES, F. C. M., **URZEDO, D. I.**, CORREA, A. J. M., FIGLIOLIA, M. B. the future of native seeds (O futuro das sementes nativas). In: Barbedo, C.J.; Santos Junior, N.A. (Eds). Sementes do Brasil - Produção e Tecnologia para Espécies da Flora Brasileira. 1ed. São Paulo: Instituto de Botânica, 2018, p. 177-207.
- 2017 **URZEDO, D. I.**, SA, D., JUNQUEIRA, R. G. P., SOUZA, B. D. F. Seeds for resistance and transformation (Sementes de resistência e frutos de transformação). In: André Villas-Bôas; Natalia Ribas Guerrero; Rodrigo Gravina Prates Junqueira; Augusto Postigo. (Eds). Xingu: histórias dos produtos da floresta. 1ed.São Paulo: Instituto Socioambinetal, 2017, p. 155-220.
- 2016 **URZEDO, D. I.**, SILVA, R. R. P., JUNQUEIRA, R. G. P., CAMPOS FILHO, E. M. Socio-productive arrangements in forest restoration: the case of direct seeding and the Xingu Seed Network (Arranjos socioprodutivos na restauração florestal: o caso a semeadura direta e da Rede de Sementes do Xingu). In: Ana Paula Moreira da Silva; Henrique Rodrigues Marques; Regina Helena Rosa Sambuichi. (Eds). Mudanças no código florestal brasileiro: desafios para a implementação da nova lei. 1ed.Rio de Janeiro: IPEA, 2016, p. 309-365.

Technical reports

- 2019 CASTILLO-DIAZ, D., **URZEDO, D. I.**, PIÑA-RODRIGUES, F. C. M. Mutamba - *Guazuma ulmifolia* Lam. (2019) doi: 10.13140/RG.2.2.18675.27686
- 2017 FREIRE, J., **URZEDO, D. I.**, PIÑA-RODRIGUES, F. C. The reality of native seed sector in Brazil: challenges and opportunities for large-scale supply (2017) doi: 10.13140/RG.2.2.24162.02243/1

- 2016 **URZEDO, D. I.**, REIS, A., Souza, B.D.F., ARAUJO, C.A. Guidelines for native seed production (2016) doi: 10.13140/RG.2.2.12280.03848
- 2016 **URZEDO, D.I.**, Native seed planning calendar (2016) doi: 10.13140/RG.2.1.4089.7522
- 2014 VIDAL, E., BRANCALION, P. H. S., **URZEDO, D. I.**, JO, V. Brazil's forests: pathways to forest restoration and management (2014) doi: 10.13140/RG.2.2.17173.12004

Prizes, Awards & Honours

My research has attracted prestigious national and international scientific awards and honours. Examples include:

- Awarded the University of Sydney Postgraduate Research Scholarship (2016)
- Awarded the São Paulo Research Foundation for Research Internship in the US (2013)
- Awarded the São Paulo Research Foundation for Postgraduate Scholarship (2012)
- Awarded the São Paulo Research Foundation for undergraduate Scholarship (2012)
- Best oral presentation – VIII World Conference on Ecological Restoration (2019)

Competitive grants

- 2016 - 2020 **Faculty of Science, the University of Sydney**
University of Sydney Postgraduate Research Scholarship (Grant number: SC0789): AUD 266,000.00
Postgraduate Research Support Scheme: AUD 4,500.00
- 2018 **National Council for Scientific and Technological Development of Brazil, CNPq**
Event fund - X Brazil's Forest Seed Symposium: USD: 10,000.00
- 2014 - 2016 **Amazon Fund**
Project - Productive Socio-biodiversity in Xingu: USD 3,421,832.91
- 2015 - 2016 **Fundo Vale**
Project - Biodiversity Value Chains in the Upper Xingu region, the Brazilian Amazon: USD 300,000.00
- 2016 **Manos Unidas**
Project - Youth participation in native seed collection in the Xingu Seed Network: USD 25,000.00
- 2014 - 2016 **National Council for Scientific and Technological Development of Brazil, CNPq**
Research Project - Fruits and seeds from the Amazon and the Atlantic Forest: effects of forest management on the rural livelihoods: USD 50,000.00
- 2012 - 2014 **São Paulo Research Foundation, FAPESP**
Scholarship in Brazil – Master's degree (Grant number: 12/10142-4): USD 15,000.00
- 2013 **São Paulo Research Foundation, FAPESP**
Research Internship in the US (Grant number: 12/10142-4): USD 10,000.00
- 2010 - 2011 **São Paulo Research Foundation, FAPESP**
Scientific initiation - Scholarship in Brazil (Grant number: 10/08927-8): USD 1,600.00

Teaching experience

Lecturer-in-Charge, Australian Catholic University

- Geopolitics, Development & Livelihoods, Bachelor of Arts and Education (2020)

Guest lecturer, the University of Sydney

- Global Development & Livelihoods, Bachelor of Science/Geography (2019 - 2020)
- Social Science of the Environment, Master of Environmental Science (2018 - 2020)
- Human Rights & the Environment, Master of Human Rights (2019)

Tutor, the University of Sydney

- Environmental Law and Ethics, Bachelor of Science/Geosciences (2020)
- Social Science of the Environment, Master of Environmental Science (2019-2020)
- Environmental & Resources Management, Bachelor of Science (2018 - 2020)

Employment history

- 2020 - **Research Associate, Curtin University, Western Australia**
Co-produce strategies with aboriginal communities to establish viable native seed supply systems for mine site restoration programs to improve community livelihoods in Western Australia.
- 2014 - 2017 **Forest Engineer, Instituto Socioambiental (ISA), southeastern Amazonia**
Development of strategies and implementation of grassroots actions for community forestry in indigenous and rural communities in the Upper Xingu region.
- 2016 **Forest Engineer, Association for Education and Social Assistance ANSA, Lower Araguaia region of Amazonia**
Conduct assessments of ecological restoration projects and household economy. Interviews and community workshops with fifty local stakeholders and environmental monitoring of 200 hectares of areas under ecological restoration.
- 2015 - 2016 **Forest Engineer, the Xingu Seed Network, Upper Xingu region, Brazilian Amazonia**
Support community-based seed supply systems through local capacity building for around 600 collectors to supply 25 tonnes of native seed yearly.
- 2014 **Forest Engineer, Amapá State Forest Institute (IEF), Northern Brazil**
Community workshops for local capacity development in rural groups focused on seed collection, processing, and storage for 50 community leaders.

Policy and advocacy work

I have been invited to participate in international and national committee, societies and networks to advance research, global policy, and awareness concerning tropical conservation and ecosystem restoration, including:

- 2020 - **International Network for Seed-Based Restoration, Society for Ecological Restoration**
Director at large to advance public education, global policy, and awareness concerning the global need for native plant seed conservation and research.
- 2019 - **Youth4Nature**
Formulate multi-level intergenerational strategies for natural solutions to climate mitigation and adaptation. Delegate in the UN's Climate Summit 2019 (New York) and UNFCCC COP25 (Madrid).
- 2017 - **IUCN - Seed Conservation Specialist Group**
Promote seed conservation by providing a network for knowledge-sharing in different ecosystems around the world.

- 2015 - **Brazilian Association for Seed Technology – Forest Seed Committee**
Develop science-based policy recommendations for seed sector and regulations in Brazil. Organization of the Brazilian Seed Conferences (2015 and 2017), seed training courses, and development of Brazil's forest seed platforms.

Outreach and science communication

I frequently engage with media to communicate my findings to the public and broader community. I write articles for *The Conversation* and have engaged in interviews in outlets such as the *BBC News*, *ABC News*, *ABC National Radio*. For example,:

Articles

- [Youth is not wasted on the young who fight for climate justice. The Conversation \(2019\)](#)
- [The Amazon is on fire – here are 5 things you need to know. BBC \(2019\)](#)
- [Amazon rainforest fire: Five things you need to know. The Conversation \(2019\)](#)
- [How Brazil can beat the odds and restore a huge swathe of the Amazon. The Conversation \(2018\)](#)

Interviews: tv and radio

- [ABC Breakfast \(2019\): Brazil calls in 44,000 troops to fight Amazon fires after international pressure](#)
- [ABC radio \(2019\): Leaders gather in Madrid for climate summit](#)
- [Triple j - ABC \(2019\): Amazon burning](#)
- [BBC sounds \(2019\): The Amazon is on fire, here's why it matters](#)
- [2SER 107.3 Radio \(2019\): Fires in the Brazilian Amazon](#)

Video documentaries (producer)

- Before the Rain (2018): <https://youtu.be/AJbuDSDmhaE>
- How Seed Network works (2014): <https://youtu.be/T0wcqTxCRtM>
- Harvest, process and storage the experiences of the Xingu Seed Network (2012): https://youtu.be/gUuy_Sx1uyY

Invited public talks

I have further disseminated my work in the form of **high-level meeting presentations**, including. Some examples :

- UNFCCC COP25: UNREDD+ & UNESCO (Madrid, 2019): Nature-Based Solutions on the Ground (SDG15)
- UNFCCC COP25: Ecosystem-based adaptation (Madrid, 2019): Building community adaptation through ecosystem restoration
- UN's Youth Climate Summit: SDG Hub (New York, 2019): Storytelling on nature-based solutions

Academic talks

I have presented my research in the form of **40 national and international conferences**, including examples include:

- VIII World Conference on Ecological Restoration (Cape Town, 2019): How will it be possible to supply tons of native seeds?
- International Conference on Forest and Landscape Restoration (Manila, 2019): Forest landscape restoration in a global production network
- Centre for Mine Site Restoration: Curtin University (Perth, 2019): An international perspective on developing effective seed programs with traditional cultures
- Youth4Nature Webinar series on Nature-based Solutions for COP25 (2019): Large-scale land restoration in Latin America
- SURCLA Seminar Series, The University of Sydney (Sydney, 2019): The Emergent Governance of Landscape Restoration in the Brazilian Amazon
- Thinking Space, The University of Sydney (Sydney, 2019): Governance of landscape restoration in the Amazon

- Conference of the Society for Ecological Restoration Australasia (Brisbane, 2018): Community-based native seed production for restoration in Brazil
- Brazil's Conference on Ecological Restoration (Cuiaba, 2018): Political issues for native seed supply
- VII World Conference on Ecological Restoration (Foz do Iguacu, 2017): Seed collection in the Upper Xingu region
- XX Brazil's Seed Conference (Foz do Iguacu, 2017): Community participation in restoration market
- XIX Brazil's Seed Conference (Foz do Iguacu, 2015): Markets and pricing native seed
- EMBRAPA: Symposium on ecosystem restoration (Mato Grosso, 2014): Experiences of forest restoration through direct seeding

Journal reviewer

I have been invited to review manuscripts for the following journals: *Land Use Policy*, *Tapuya: Latin American Science, Technology and Society*; *Journal of Genocide Research*; *FLORAM: Floresta & Ambiente*.

Organization of academic events

- X Brazil's Forest Seed Symposium (Foz do Iguacu, 2018)
- Thinking Space: Human Geography seminars of the School of Geosciences, Sydney University (Sydney, 2018)
- IX Brazil's Forest Seed Symposium (Foz do Iguacu, 2017)
- VII World Conference on Ecological Restoration (Foz do Iguacu, 2017) – Workshop: Seeds for Large-scale Restoration: a matter of Seed Networks

Student supervision

2019-2020	Jaqueline Figueiredo. Brazil's native seed map: identifying multiple-stakeholders for plant material supply Bachelor degree – Federal University of Sao Carlos.
2012-2014	Sarah Domingues de Oliveira Andrade. Native seed pricing: approaches to quantify seed production costs. Bachelor degree – The University of Sao Paulo.
2013-2014	Tui Anandi. How the seed network operates: an audiovisual documentation. Bachelor degree – The University of Sao Paulo.
2013-2014	Enzo Spelta. Dialogues for community-based seed production. Bachelor degree – The University of Sao Paulo.