

Dr Danilo Urzedo

Postdoctoral Research Associate - University of Cambridge

+44 7383 881189 did24@cam.ac.uk

Cambridge CB2 1SB, United Kingdom

Academic Summary

Publications: 3 books; 6 book chapters; 9 peer-reviewed articles; 6 publications under review; 45 conference publications

Research grants: Awarded >US\$ 4M in funding. **Citation metrics:** 185 citations (top cited article = 48); h-index = 7

Education

- 2020 **PhD in Human Geography, the University of Sydney**
Thesis: Governance of forest landscape restoration in the Brazilian Amazon
Scholarship: The University of Sydney Postgraduate Research
- 2014 **MPhil 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

- 2021 **URZEDO, D.**, PEDRINI, S., VIEIRA, D.L., SAMPAIO, A.B., SOUZA, B.D., CAMPOS-FILHO, E.M., PIÑA-RODRIGUES, F., SCHMIDT, I.B., JUNQUEIRA, R.G., DIXON, K. (2021), Indigenous and local communities can boost seed supply in the UN decade on ecosystem restoration, **Ambio** doi: 10.1007/s13280-021-01593-z
- 2021 **URZEDO, D.I.**, CHATTERJEE, P. (2021), The Colonial Reproduction of Deforestation in the Brazilian Amazon: Violence Against Indigenous Peoples for Land Development, **Journal of Genocide Research** doi: 10.1080/14623528.2021.1905758
- 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 **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 **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., **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 **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 (Florestação: 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 (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

- 2020 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: Severino Ribeiro; Fabiane Santos; & Cindy Precott (Eds). Forest Landscape Restoration and Social Opportunities in the Tropical World. Recife, PE: Centro de Pesquisas Ambientais do Nordeste, 2020, p. 188-216.
- 2020 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. Recife, PE: Centro de Pesquisas Ambientais do Nordeste, 2020, p. 217–233.
- 2020 **DE URZEDO, D. I.**, FISHER, R., SÁ, D., & JUNQUEIRA, R. Indigenous Participation in the Native Seed Market: Adapting Ethnic Institutions for Ecological Restoration in the Southeastern Amazon. In Walter Leal Filho; Valter King; Ismar Borges Lima (Eds.). Indigenous Amazonia, Regional Development and Territorial Dynamics. Cham: Springer, 2020, p. 287–309, 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: C.J. Barbedo; N.A. Santos Junior (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.

Employment history

- 2021 - **Postdoctoral Research Associate, University of Cambridge, England**
Smart Forests project evaluates how emerging digital practices are transforming community participation to stop deforestation and upscale forest restoration actions in tropical regions.
- 2020 - 2021 **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.

Teaching experience

Lecturer, University of Cambridge

- Advanced Social Theory, Bachelor of Sociology (2021)

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)

Prizes, Awards & Honours

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

- Granted the UK Global Talent visa endorsed by the UK Research and Innovation (2021)
- Best oral presentation – VIII World Conference on Ecological Restoration (2019)
- 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 (2010)

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

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 technical frameworks and policies concerning the global native seed supply for landscape restoration.
- 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 the seed sector in Brazil. Organization of the Brazilian Seed Conferences (2015 and 2017), training courses, and development of seed supply strategies.
- 2019 - 2020 **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).

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 (co-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 COP26: Brazil Climate Hub (Glasgow, 2021), Forest Makers: premier of the video documentary
- People's Summit for Climate Justice, COP26 Coalition (Glasgow, 2021), Indigenous participation in forest restoration
- 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): Youth engagement with nature-based solutions

Academic talks

I have presented my research in the form of **45 national and international conferences**, including examples include:

- 30th International Congress for Conservation Biology, Society for Conservation Biology (ICCB 2021): Landscape restoration and digital technologies: Assessing stakeholders' engagements
- 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*; *Biodiversity*; *Land*; *Tapuya: Latin American Science, Technology and Society*; *Forests*; *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

2021 -	Thais Monteiro. Native seeds: producing income and restoration in the Brazilian Savanna. Master's degree in Ecology - University of Brasília
2019 - 2021	Jaqueline Figueredo. Brazil's native seed map: identifying multiple stakeholders for plant material supply. Bachelor's degree – Federal University of Sao Carlos.
2012 - 2014	Sarah Domingues de Oliveira Andrade. Native seed pricing: approaches to quantify seed production costs. Bachelor's degree – The University of Sao Paulo.
2013 - 2014	Tui Anandi. How the seed network operates: an audiovisual documentation. Bachelor's degree – The University of Sao Paulo.
2013 - 2014	Enzo Spelta. Dialogues for community-based seed production. Bachelor's degree – The University of Sao Paulo.