DR. IMMACULADA (IMMA) OLIVERAS MENOR

Research Director, Institute de Recherche pour le Développement, France
Senior Researcher, School of Geography and the Environment, University of Oxford, UK
Permanent Visiting Professor, State University of Mato Grosso, Brazil
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Research Profiles: U.Oxford | IRD | OrCid | ResearchGate | LinkedIn | Google | Personal Website

HIGHLIGHTS

I am an ecosystem ecologist who explores the vulnerability and resilience of ecosystems to global change. I am interested in how changes in the abiotic conditions - and particularly extreme drought events and modified fire regimes - affect plant form and function, and how they aggregate to biodiversity and ecosystem functioning. I am particularly passionate about mountainous and tropical environments.

I am Research Director in Disturbance Ecology at IRD (France), and Senior Researchers at the Environmental Change Institute (ECI), University of Oxford. I lead a **research group in disturbance ecology and global change**, with members in the UK, Brazil and France.

I have over 20 years of professional career, I have lived for more than six months in seven countries, and I speak five different languages.

Keywords: ecophysiology, remote sensing, disturbance ecology, community ecology, carbon

Some metrics
h-index (Google Scholar): 40
Publications (12/2/2025): 102
First author: 15
Senior Author: 15
Second author: 13
International networks: GEM, ForestPlots, PPBioCerrado, FIRE-ADAPT
Funding secured (12/02/2025): Principal Investigator: 4.5 m €
Co-Investigator: 3.8 m €
Supervision: Postdocs: 9
PhD: 17 (10 as main supervisor)
MSc: 30
BSc: 51

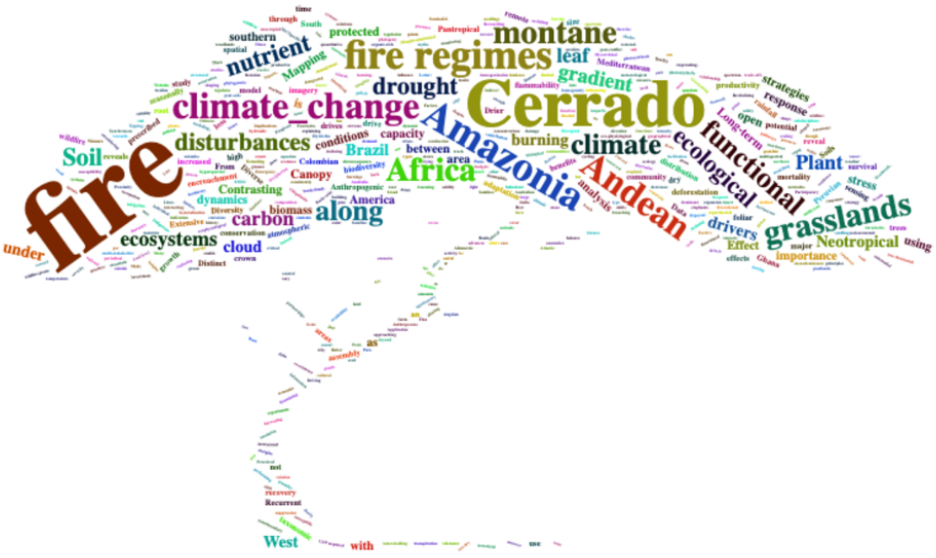

Fig1 – Wordcloud from my publications titles (R package wordcloud2)

ACADEMIC POSITIONS

Scientific Research Director Dec 2021 - Present
Institute de Recherche pour le Développement (IRD), Mixed Research Unit Botany and Modelisation of Plants and Vegetation, (UMR-AMAP), France,

Senior Scientist April 2022 – Present
Environmental Change Institute (ECI), School of Geography and the Environment, (SOGE), University of Oxford, UK.

Adjunct Professor *(pro-bono)* Jan 2015 - Present
Department of Environmental Sciences, State University of Mato Grosso (UNEMAT), Brazil.

Previous appointments

CIRES Sabbatical Professor Aug 2024 – Dec 2024

Earth Lab, Colorado University Boulder, Boulder, United States of America

Departmental Research Lecturer Nov 2016 – Mar 2022
Ecosystems Science, Environmental Change Institute, University of Oxford, United Kingdom

Deputy Ecosystems Programme Leader Nov 2016 – Mar 2022
Environmental Change Institute, University of Oxford

Research Fellow Nov 2016 – Mar 2022
Tropical Ecology**,** Oriel College, Oxford

Visiting Associate Professor Sept 2018 – Sept 2020
Institute of Biosciences, University of Campinas, Brazil

Postdoctoral Research Fellow Nov 2015 - Nov 2016
Environmental Change Institute, School of Geography and the Environment, University of Oxford, UK

Marie Curie Research Fellow Nov 2013 – Nov 2015
Natural Resources and Plant Ecology Group, University of Wageningen (WUR), Netherlands

Postdoctoral Research Associate Sept 2009 – Oct 2013
Environmental Change Institute, School of Geography and the Environment, University of Oxford, UK

Beatriu de Pinós Research Fellow Sept 2007 – Aug 2009
Department of Ecology, University of São Paulo, Brazil.

Environmental Technician Jan 2001 – Dec 2001
Paper Industry Union (UIPSA), Barcelona, Spain

Research assistant July 1999 – Dec 2000
Jaume Almera Institute, Spanish National Research Council, Barcelona, Spain.

Research assistant May 2000 – Oct 2000
Department of Ecology, University of Alicante, Spain.

EDUCATION

PhD in Environmental Sciences 2003 - 2006
Autonomous University of Barcelona**,** Spain
Thesis title: Number of fires, large forest fires and prescribed burning in Mediterranean ecosystems. Supervisors: Josep Piñol Pascual & Domingos Xavier Viegas. Grade: *Eximia cum Laude Approbatur*.

MSc in Environmental Sciences 2002-2003
Autonomous University of Barcelona, Spain
Thesis title: *Generalisation of the fire rotation model to curved fire lines.* Grade: First with Distinction.

BA in Environmental Sciences 2000
Autonomous University of Barcelona, Spain
Grade: First Class

FUNDING (PI, Co-I)

Values are rounded, secured amounts ***> £10,000 in blue, >£100,000 in orange***

2023-2026 FIRE-ADAPT: The role of integrated fire management on climate change adaptation for ecosystem services in tropical and subtropical region. **2,100,000 € (PI).**

2022-2026 Understanding and scaling vulnerability of neotropical amazon and transitional forests to altered fire regimes, NERC Standard Grant. **£800,000 (PI).**

2020 – 2021 Deciphering phylogenetic and functional diversity of tropical forests. British Ecological Society. **£5,000 (PI).**

2019 – 2020 Designing better fire management policies for the post-conflict Colombian Amazon. Research England GCRF. **£60,000 (PI).**

2019 – 2022 ECOSTRESS: Merging ECOSTRESS with field data in the highest uncertainty water use efficiency regions in the world, NASA. **USD 350,000 (£ 263,000), (Co-I).**

2019 – 2022 DIEBACK: Evaluating fire-induced impacts on tree dieback and carbon fluxes in human-modified Amazonian forests. NERC Std grant. **£800,000 (USD 1,067,000) (Co-I).**

2019 – 2021 ARBOLES: A trait-based understanding of Latam forest biodiversity and resilience (NERC Newton-Fund), **£1,200,000 (USD 1,600,000) (Co-I).**

2019 – 2024 RoL: FELS RAISE: Design principles of evolved transportation networks in leaf veins. National Science Foundation (NSF, US), **USD 997,000 (£748,000) (Co-I).**

2018 – 2020 Drought-fire interactions on secondary Brazilian vegetation. FAPESP-Brazil, R$200,000 **(£41,000/USD 37,500), (PI)**

2017-2020 Strategies for conserving Cerrado biodiversity and ecology: the role of fire as a management tool. John Fell Fund. **£40,000 (USD 53,500), (PI).**

2016-2020 BIOmes of Brasil – Resilience, Recovery and Diversity (BIO-RED). Newton-Fund – FAPESP Young Investigator Grant, co-PI. NERC NE/N012542/1. **£126,200 (USD 169,000). (PI).**

2017 (Six months) ESPRC-GRCF: Improving remote sensing fire monitoring in the Colombian Orinoco Basin. **£30,000 (USD 40,000). (PI)**

2015-2018 Biotic Attributes of the Corrado-Amazon boundary, Science without Borders. R$275,000 **(£56,000/ USD51,500). (PI)**

2013 Testing the fire trap hypothesis in Ghana, British Ecological Society. **£5,000. (PI)**

2012 Fire behaviour in the Tropical Andes. Research grant AGL2011-23425. Spanish Government. 20,000€ **(£18,000/USD24,000), (Co-I)**

2010-2011 Forest fires and their implications for REDD+. Amazon Conservation Association, **USD30,000 (£25,000), (PI).**

PROJECT PARTICIPATION (PARTNER/COLLABORATOR)

2024-2027 **PPBio Rede Biota Cerrado,** PPBio, CNPQ, Brazil. Project Participant WP5 (Integrated fire management). PI: Guarino Colli (UnB). Duties: collaborate on tasks and deliverables related to WP5

2023-2025 **Island Leaf Ecophysiological Trait Synthesis (ISLETS)** – Collaborator (PIs Kasey Barton, Hawai University and Claire Fortunel, Research Institute for Development, IRD). Duties: project participant.

2016-2018 **Assessing ENSO-induced Fire Impacts in tropical Rainforest Ecosystems (AFIRE)** – Collaborator (PI Prof Jos Barlow, U. Lancaster). Duties: Supervised research on regeneration patterns in burned and unburned Amazonian ecosystems.

2014-2016 **GEM-Traits** – Project participant (collaborator, postdoctoral researcher) (PI Yadvinder Malhi, ERC Advanced). Duties: Lead field campaigns, coordinate data collection, database management, deliver research results.

2014-2018 **ECOFOR** – Project collaborator (PI Prof Jos Barlow, U. Lancaster & Prof Carlos Joly, U. Campinas). Duties: train postdocs in trait sampling analyses, provide validation data, participate in data analyses.

2009-2012 **Fire dynamics and carbon implications in the tropical Andes (NERC NE/G006385/1).**

Postdoctoral Research Assistant (PI Yadvinder Malhi). Duties: coordinate and manage project.

2006-2009 **Exotic grasses in Cerrado (Brazilian savanna)**: relationships with fire and native grasses for developing management and conservation strategies (FAPESP 06/61570-5) – Postdoctoral Research Assistant (PI Prof Vânia R. Pivello). Duties: coordinate and manage project.

2004-2006 **Análisis y modelización de la distribución espacial de la severidad del fuego en grandes incendios forestales a escala local y de paisaje** *[Modelling spatial fire severity and spatial distribution of large fires at the local and landscape scales]*. (Instituto Nacional de Investigación Agraria y Ciencia Alimentaria, RTA04-015), PhD student (PI Prof Javier Retana). Duties: perform remote sensing analyses.

2003-2006 **EU-FIRELAB:** Euro-Mediterranean Wildland Fire Laboratory, a "wall-less" laboratory for wildland fire sciences and technologies in the Euro-Mediterranean region (EU Commission EVR1- CT- 2002-40028), PhD student (PI Jean Charles Valette). Duties: perform fire behaviour related research.

2002-2004 **EU-SPREAD:** Forest fire prevention and mitigation (EU Commission EVG1-2001-00043), Research assistant (PI Domingos Xavier Viegas). Duties: perform field and laboratory manipulative experiments on ecophysiology and fire behaviour.

PUBLICATIONS

Peer-reviewed publications - For most updated version of publications check Google Scholar. Blue: highlighted over last 5 years, underscored: mentored ECRs

1. **Oliveras Menor, I**, Roland, H., Chimminnazo, M., Navarro-Rosales, F., Yelenik, S., Urza, A., Alves Cruz ,W.J., Barton, K.E., Carniello, M.A., Curran T.J., Fidelis A., Fortunel C., Rosado B.H.P., Schwilk D., Charles-Dominique T. (2025) Towards a functional framework for predicting ecosystem responses to novel fire regimes. American Journal of Botany
2. Navarro -Rosales, F., Strevens, C., Oliveras Menor, I. What is the role off ire in rewilding? Synthesising peer-reviewer literature into four thematic discourses. Perspectives in Ecology and Conservation, accepted 21/02/2025
3. Altomare M., Vasconcelos, H.L., Oliversa Menor I. The conservation potential of road verges in the savannas of Brazil: challenges and opportunities. Perspectives in Ecology and Conservation, accepted 17/02/2025
4. **Oliveras Menor I.,** Prat-Guitart N., Spadoni, G.L, Hsu, A., Fernandes, P., Puig-Gironès, R., Ascoli, D, Bilbao, B.A., Bacciu, V., Brotons, L., Carmenta, R., de-Miguel, S., Gonçalves, L.G., Humphrey, G., Ibarnegaray, V., Jones, M.W., Machado, M.S., Millan, A., Morais de Falleiro, R., Mouillot, F., Pinto, C., Pons, P., Regos, A., Senra de Oliveira, M., Harrison, S.P., Armenteras Pascual, D. (2025) Integrated fire management as an adaptation and mitigation strategy to altered fire regimes. Nature Comms Earth Env, accepted 28/01/25
5. Loft, T., **Oliveras Menor, I.O.,** Stevens, N., Clements, H., Santini, L., Thomas, S., Tobias, J., Malhi, Y. (2025). Energy flows reveal declining ecosystem functions by animals across Africa. Nature, accepted. 22/01/2025
6. Aguirre-Gutierrez J., Rifai S., Berenguer, E. , **Oliveras Menor, I.,** et al (2025) Canopy functional trait variation across Earth's tropical forests. Nature, accepted 16/01/2025.
7. Aguirre-Gutierrez J., Malhi Y. , **Oliveras Menor, I.,** et al (178 co-authors) (2025) Tropical forests in the Americas are changing too slowly to track climate change. (Science) accepted 08/01/2025
8. Brando P.M., Barlow J., Macedo M.N., Silvério D., Ferreira J., Maracahipes L., Anderson L., Morton D., Alencar A., Paolucci L., Jacobs S., Stouter H., Randerson J., Flores B., Starinchak B., Pires M.M., Rattis L., Armenteras D., Artaxo P., Ordway E., Trumbore S., Staver C., Berenguer E., **Oliveras Menor I.,** Maracahipes-Santos I., Potter N., Uribe M. (2025) Tipping points of Amazonian forests: beyond myths and toward solutions. Ann Rev.Ecol.Evol.Syst. in press.
9. Schwilk, D.W., Azharul Alam, Md, Gill, N., Murray, B.R., Nolan, R.H., Ondei, S., Perry, G.L.W., Smith, A.M.S., Bowman, D.M.J.S, Fidelis, A., Jaureguiberry, P., **Oliveras Menor, I.,** Rosado, B.H.P., Roland, H., Yebra, M., Yelenik, S.G., Curran, T.J. (2025) From plant traits to fire behaviour: scaling issues in flammability studies. American Journal of Botany (*in press*)
10. Segura-Garcia, C., Alencar, A., Arruda, V., Bauman, D., Silva, W., Conciani, D.E. & **Oliveras Menor, I.** (2025). The fire regimes of the Cerrado and their changes through time. Phil Trans Roy Soc B., in press
11. Puig-Gironès, R., Palmero-Iniesta, M., Fernandes, P., **Oliveras Menor, I.,** Ascoli, D., Kelly, L., Charles-Dominique, T., Regos, A., Harrison, S.P., Armenteras, D., Brotons, L., de-Miguel, S., Spadoni, G.L., Machado, M.S., Cardill, A., Santos, X., Erdozain, M., Canaleta, G., Berlinck, C.N., Vilalta-Clapes, Q., Mouillot, F., Salis, M., Verdinelli, G., Bacciu, V., Pons, P. (2025) The use of fire to preserve biodiversity under novel fire regimes. Philosophica Transactions Royal Society B, in press.

12. Christmann, T., Cjuno-Turpo, I., López-Aranda, M.; Wilson, S.J.; Cuni-Sanchez, A.; Malhi, Y.; Ramirez, A.; Rondán, V.; Medina Castro, F.; Mamani, M.; Recharte, J.; Arenas, M.; Aucca Chutas, C.; Amador Carrión Moreno, O.; Gonzalez Cabello, F.B.; **Oliveras Menor, I.** (2025). Sowing and harvesting water: revisiting forest restoration n the Peruvian Andes, though a multi-stakeholder analysis. People and Nature https://doi.org/10.1002/pan3.10787.
13. Pilon, N., [...183 co-authors incl **Oliveras Menor, I**.], Durigan G. (2025). Open Letter: There are more than just trees and forests to be conserved and restored. Plants, People, Planet https://doi.org/10.1002/ppp3.10635.
14. Hua, X., Lusk, C.H., Dickie, I.A., Adu-Bredu,S., Allen, K.J., Araus, V., Augusto, L., Pavel Barsukov, P., Bauman, D., Brédoire, F., FRP Burslem, D.F.R.P., Dalling, J.W., Depauw, L., Dexter, K.G., Drouet, T., Godlee, J.L., Godoy, R., Gutiérrez, R.A., Ilunga Muledi, J., Jacobs, A., Kooyman, R., Latorre, C., López Angulo, J., Macé, S., Maes, S.L., Maiato Pedro Gonçalves, F., Marimon Junior, B.H., l Nicolas, M., Nilus, R., O'Brien, M., **Oliveras Menor, I.**, Piper, F.I., Read, J., Reynolds, G., Saldaña, A., Marimon, B.S., Verheyen, K., Westoby, M., Wigley, B., Wrigh, I.J. (2025). Site-Specific Nutrient Data Reveal the Importance of Soils in Driving the Mycorrhizal Make-Up of Woody Vegetation Worldwide. Global Ecology and Biogeography, 34(1), e13936.
15. Koralewicz, A., Vlcek, J., **Menor, I. O**., Hirons, M., Akinyugha, A., Olowoyo, O. S., ... & Owen, O. (2025). Mapping the extent and exploring the drivers of cocoa agroforestry in Nigeria, insights into trends for climate change adaptation. Agroforestry Systems, 99(2), 38.
16. Gopalakrishna, T., Rifai, S., Ratnam, J., **Oliveras Menor, I.,** Stevens, N., Malhi, Y., (2024) The distribution and drivers of tree cover in India. Commun. Earth and Environ 5: 399.
17. Segura-Garcia, C., Bauman, D., S. Arruda, V. L., C. Alencar, A. A., & **Oliveras Menor, I.** (2024). Human land occupation regulates the effect of the climate on the burned area of the Brazilian Cerrado. Communications Earth & Environment, 5(1), 361.
18. Halbritter, A.H., Vandvik, V., Cotner, S.H., Farfan-Rios, W., Maitner, B.S., Michaletz, S.T., **Oliveras Menor, I.,** [61 co-authors], Enquist, B.J. (2024) Plant trait and vegetation data along a 1314 m elevation gradient with fire history in Puna grasslands, Perú. Sci. Data 11, 225. https://doi.org/10.1038/s41597-024-02980-3
19. Kamath, V., **Oliveras Menor, I.,** Macdonald, D.W., Farhadinia, M.S., (2024) Proximity and size of protected areas in Asian borderlands enable transboundary conservation. Front. Conserv. Sci. 4.
20. Loft, T., Stevens, N., Gonçalves, F.M.P., **Oliveras Menor, I.,** (2024) Extensive woody encroachment altering Angolan miombo woodlands despite cropland expansion and frequent fires. Glob. Change Biol. 30, e17171. https://doi.org/10.1111/gcb.17171
21. Machado, M. S.; Berenguer, E.; Brando, P.M.; Alencar, A.; **Oliveras Menor, I.;** Barlow, J.; Malhi, Y. (2024) Emergency policies are not enough to resolve Amazonia's fire crises. Commun. Earth Environ. 5, 1–5. https://doi.org/10.1038/s43247-024-01344-4
22. Matos, I.S., Rifai, S.W., Gouveia, W.F., **Oliveras Menor, I.,** Mantuano, D., Rosado, B.H.P., (2024) A causal trait model for explaining foliar water uptake capacity. J. Veg. Sci. 35, e13258. https://doi.org/10.1111/jvs.13258
23. Sayedi, S.S., [116 co-authors incl **Oliveras Menor, I.]** C., Daniau, A.-L., (2024). Assessing changes in global fire regimes. Fire Ecol. 20, 18. https://doi.org/10.1186/s42408-023-00237-9
24. Zhang-Zheng, H., Adu-Bredu, S., Duah-Gyamfi, A., Moore, S., Addo-Danso, S.D., Amissah, L., Valentini, R., Djagbletey, G., Anim-Adjei, K., Quansah, J., Sarpong, B., Owusu-Afriyie, K., Gvozdevaite, A., Tang, M., Ruiz-Jaen, M.C., Ibrahim, F., Girardin, C.A.J., Rifai, S., Dahlsjö, C.A.L., Riutta, T., Deng, X., Sun, Y., Prentice, I.C., **Oliveras Menor, I.,** Malhi, Y., (2024). Contrasting carbon cycle along tropical forest aridity gradients in West Africa and Amazonia. Nat. Commun. 15, 3158. https://doi.org/10.1038/s41467-024-47202-x
25. Zhang-Zheng, H., Malhi, Y., Gvozdevaite, A., Peprah, T., Boakye, M., Ziemińska, K., Adu-Bredu, S., Gutiérrez, J.A., Sandoval, D., Tang, M., Prentice, I., **Oliveras Menor, I.,** (2024). Variation in plant traits along a tropical wet-dry gradient: a test of ecophysiological theories. Comms Bio https://doi.org/10.21203/rs.3.rs-4326267/v1
26. Béllo Carvalho, R., Malhi, Y., **Oliveras Menor, I.,** (2023) Frugivory and seed dispersal in the Cerrado: Network structure and defaunation effects. Biotropica 55, 849–865. https://doi.org/10.1111/btp.13234
27. Christmann, T., Palomeque, X., Armenteras, D., Wilson, S.J., Malhi, Y., **Oliveras Menor, I.,** (2023) Disrupted montane forest recovery hinders biodiversity conservation in the tropical Andes. Glob. Ecol. Biogeogr. 32, 793–808. https://doi.org/10.1111/geb.13666
28. Da Conceição Bispo, P., Picoli, M.C.A., Marimon, B.S., Marimon Junior, B.H., Peres, C.A., **Oliveras Menor, I.,** Silva, D.E., De Figueiredo Machado, F., Alencar, A.A.C., De Almeida, C.A., Anderson, L.O., Aragão, L.E.O.C., Breunig, F.M., Bustamante, M., Dalagnol, R., Diniz-Filho, J.A.F., Ferreira, L.G., Ferreira, M.E., Fisch, G., Galvão, L.S., Giarolla, A., Gomes, A.R., De Marco Junior, P., Kuck, T.N., Lehmann, C.E.R., Lemes, M.R., Liesenberg, V., Loyola, R., Macedo, M.N., De Souza Mendes, F., Do Couto De Miranda, S., Morton, D.C., Moura, Y.M., Oldekop, J.A., Ramos-Neto, M.B., Rosan, T.M., Saatchi, S., Sano, E.E., Segura-Garcia, C., Shimbo, J.Z., Silva, T.S.F., Trevisan, D.P., Zimbres, B., Wiederkehr, N.C., Silva-Junior, C.H.L., (2023) Overlooking vegetation loss outside forests imperils the Brazilian Cerrado and other non-forest biomes. Nat. Ecol. Evol. 8, 12–13. https://doi.org/10.1038/s41559-023-02256-w
29. Doughty, C.E., Keany, J.M., Wiebe, B.C., Rey-Sanchez, C., Carter, K.R., Middleby, K.B., Cheesman, A.W., Goulden, M.L., Da Rocha, H.R., Miller, S.D., Malhi, Y., Fauset, S., Gloor, E., Slot, M., **Oliveras Menor, I.,** Crous,

K.Y., Goldsmith, G.R., Fisher, J.B., (2023) Tropical forests are approaching critical temperature thresholds. Nature 621, 105–111. https://doi.org/10.1038/s41586-023-06391-z

30. Kelly, L.T., Fletcher, M.-S., **Oliveras Menor, I.,** Pellegrini, A.F.A., Plumanns-Pouton, E.S., Pons, P., Williamson, G.J., Bowman, D.M.J.S., (2023) Understanding Fire Regimes for a Better Anthropocene. Annu. Rev. Environ. Resour. 48, 207–235. https://doi.org/10.1146/annurev-environ-120220-055357
31. Maclean, K., Hankins, D.L., Christianson, A.C., **Oliveras Menor, I.,** Bilbao, B.A., Costello, O., Langer, E.R., Robinson, C.J., (2023) Revitalising Indigenous cultural fire practice: benefits and partnerships. Trends Ecol. Evol. 38, 899–902. https://doi.org/10.1016/j.tree.2023.07.001
32. Araújo, I., Scalon, M.C., Amorim, I., **Oliveras Menor, I.O.,** Cruz, W.J.A., Reis, S.M., Simioni, P.F., Marimon, B.S., (2023) Morpho-anatomical traits and leaf nutrient concentrations vary between plant communities in the Cerrado–Amazonia transition? Flora 306, 152366. https://doi.org/10.1016/j.flora.2023.152366
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89. **Oliveras I.,** Meirelles S.T., Hirakuri V.L., Freitas C.R., Miranda H.S., Pivello V.R. (2013) How do fire regimes affect herbaceous nutrient contents in a Brazilian open savanna? *International Journal of Wildland Fire* 22: 368-380. DOI: https://doi.org/10.1071/WF10136
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94. **Oliveras I**., Bell T. (2008) Analysis of the Australian literature on prescribed burning. *Journal of Forestry* 106: 31-37. https://doi.org/10.1093/jof/106.1.31.
95. **Oliveras I.,** Piñol J., Viegas D.X. (2006) Generalisation of the Fire Line Rotation Model to Curved Fire Lines. International *Journal of Wildland Fire* 15: 447-456. https://doi.org/10.1071/WF05046.
96. Bell T., **Oliveras I.** (2006) Perceived benefits of prescribed burning in a local forest community of Victoria, Australia. *Environmental management* 38: 867 - 878.
97. Viegas D.X., **Oliveras I.**, Rossa C., Piñol P. (2006) Fireline Rotation Model. *Forest Ecology and Managemen*t 234, s1 (283), p15. https://doi.org/10.1071/WF05046.
98. **Oliveras I.,** Viegas D.X., Piñol J. (2005) Modelling the long-term effect of changes in fire frequency on the total area burnt. *Orsis* 20: 73 – 81.
99. Llorens, P., **Oliveras, I.,** Poyatos, R. (2003) Temporal variability of water fluxes in a Pinus sylvestris forest patch in a Mediterranean catchment. International Association for the Hydrological Sciences 278: 101-105.
100. **Oliveras I**., Martinez-Vilalta J., Jimenez-Ortiz T., Lledó M.J., Escarré A., Piñol J. (2003) Hydraulic properties of Pinus pinea and Tetraclinis articulata in a dune ecosystem of Eastern Spain. *Plant Ecology*, 131-141. https://doi.org/10.1023/A:1026223516580.
101. Martinez-Vilalta J., Prat E., **Oliveras I.,** Piñol J. (2002) Hydraulic properties of roots and stems of nine woody species from an oak forest in NE Spain. *Oecologia* 133: 19 – 29. https://doi.org/10/1007/s00442-002-1009-2.
102. **Oliveras I.,** Llorens P. (2001). Medium term sap flux monitoring in a Scots pine stand: analysis of the operability of the heat dissipation method for hydrological purposes. *Tree Physiology* 21: 473-480. https://doi.org/10.1093/treephys/21.7.473.

Special Issues

1. Oliveras, I., Burton K., Schwilk D., Curran T., Yelenik S., Fidelis A., Jaugueberry P. 2025 (Eds) The role of plant traits definiting responses to novel fire regimes. American Journal of Botany
2. **Oliveras, I.**, Arn Teh Y., Colorado G. 2020. Climate Change Impacts on tropical ecosystems (Eds.), Biotropica, December 2020; https://onlinelibrary.wiley.com/doi/toc/10.1111/(ISSN)1744-7429.biotropica-vi.
3. **Oliveras I.,** Roman-Cuesta R.M. (2020) Impacts of Fire on Biodiversity. Frontiers in Forest and Global Change. https://www.frontiersin.org/research-topics/10494/impact-of-fire-on-biodiversity#overview.

Book chapters

1. Christmann, T., Oliveras, I., 2020. Nature of Alpine Ecosystems in Tropical Mountains of South America. In: Goldstein, M.I., DellaSala, D.A. (Eds.), Encyclopaedia of the World's Biomes, vol. 1. Elsevier, pp. 282–291. ISBN: 9780128160961.

Policy reports, white papers

1. Maclean, K., Christianson, A.C., Bilbao, B., **Oliveras, I.,** Langer, E.R., Nangoma, D.,. Baird, I.G. Robinson, C., Costello O. Indigenous cultural burning for wildfire prevention, mitigation and response - UNEP Wildfires Rapid Response report, 6 October 2020.

HONOURS AND AWARDS (last 5 years)

2024 CIRES Sabbatical Fellowship, CIRES, University Colorado Boulder, USD 25,000 (4 month sabbatical)

2020 Merit Award for outstanding academic performance, School of Geography and the Environment, University of Oxford (£150 of monthly bonus salary increase).

2018 – 2019 Visiting Professorship at Centre for Environmental Studies and Research, University of Campinas, Brazil (£14,500/USD18,600).

RESEARCH RESULTS (Last 5 years)

Keynote and Plenary talks

2024 Keynote speaker – 'Tipping points in Tropical Forests' – 20-23 March, University of Yale, United States

2022 Keynote speaker, Jornades Universitaries d'Incendis Forestals, University of Girona, 31 Mar 2022: 'L'ús del foc com a eina de gestió del paisatge a Brasil'.

2020 Keynote speaker, Oriel Talks, Oriel College, Oxford: 'Wildfires and Global Change in South America". 01/12/2020.

Invited talks and seminars

2024 Invited Seminar – 'Impacts of Global Change on tropical ecosystem functioning' – 21 November 2024, University of Yale, United States.

2024 Invited Seminar – 'Big data in disturbance ecology – new avenues' – 17 September 2024, Earth Lab, University of Colorado Boulder

2024 Invited Speaker – 'Impacts of global change on tropical ecosystem functioning: a lens into the Brazilian savanna'. 3 Mar 2024 , University of Reading, UK.

2023 Invited speaker – 'Impacts of global change on tropical ecosystem functioning – a lens into Brazilian savanna'. 2 Oct 2023, Rocky Mountain Research Station, Fort Collins, CO, US.

2023 Invited Speaker (online) – 'Changes in disturbance regimes in tropical ecosystems – why should we care about?, 27 Sept 2023 Massachusetts Institute of Technology.

2023 Invited Speaker – 'Impacts of global change on tropical ecosystem functioning'. Earth Lab Seminar Series 5 Sep 2023, University of Colorado Boulder.

2021 Invited seminar (online) – 'Ecological mechanisms of tropical vegetation transitions for co-existing with abiotic stressors and disturbances'. Northern Arizona University, 11 Oct 2021

2021 Invited seminar (online) – 'Tropical ecological transitions under global change'. University of British Columbia, 9 February 2021/

2020 Invited speaker, writing skills in tropical biology and conservation. ATBC, 20/12/2020. Available at https://tropicalbiology.org/webinars/atbc2020series/writing-skills/.

2020 Invited Seminar (*online*) - "Incendios forestales en zonas montanas tropicales: drivers e impactos en el funcionamento ecosistémico". Universidad La Molina, Peru 28 June 2020.

2020 Invited Seminar (*online*) – Hablemos de incendios forestales, Universidad Nacional de Colombia, 20 April 2020

Symposium, workshop, meeting organiser

2022 Symposium: 'The role of functional traits in shaping species coexistence at local and landscape scales.' Association of the Tropical Biology and Conservation, 10-14 July 2022, Cartagena, Colombia. Co-organizers: Imma Oliveras Menor & Claire Fortunel (IRD)

2022 Symposium: 'Tropical ecosystems response to disturbances. European Conference of Tropical Ecology' (Montpellier, France). Co-organizers : Imma Oliveras Menor & Claire Fortunel (IRD).

2020 Webinar: 'Climate Change: History, Environment and Society.' ATBC, 222 October 2020. Co-organizers: Imma Oliveras Menor, Gabriel Castellano (UNAL) & Yit Arn Teh (U. Edinburgh). Available at: https://tropicalbiology.org/webinars/atbc2020series/climate-change/

Conference oral presentations

2024 **Oliveras I.**, Segura-Garcia C., Cruz, W.J., Navarro Rosales F., Carniello M.A. 2024. Human and climate influences over fire regimes and vegetation dynamics in the Brazilian Cerrado. EGU, 9-13 December 2024, Washington DC.

2024 Segura-Garcia, C., Bauman, D., Arruda, V.L.S., Alencar, A., Oliveras Menor, I., 2024. Human land occupation regulates the effect of the climate on the burned area of the Cerrado biome (No. EGU24-10377). Presented at the EGU24, Copernicus Meetings. https://doi.org/10.5194/egusphere-egu24-10377

2024 Machado, M., Cruz, W. da, Carniello, M.A., Sturdivant, E., Navarro-Rosales, F., Macedo, M., Walker, W., Oliveras Menor, I., 2024. Fire impacts in the Cerrado: Integrating LiDAR and field data to monitor vegetation structure and post-fire recovery. (No. EGU24-19716). Presented at the EGU24, Copernicus Meetings. https://doi.org/10.5194/egusphere-egu24-19716

2022 **Oliveras, I**., Scalon, M., Stevens, 'The role of pyrodiversity in ecosystem functioning'. European Conference of Tropical Ecology. 7-9 June 2022.

TEACHING

Postgraduate teaching: I taught regular lecturer for the prestigious MSc courses of Environmental Change and Management, and Biodiversity Conservation and Nature Recovery at the School of Geography and the Environment (University of Oxford) from 2010 to 2022. In the period 2017 – 2022, I was module leader of three courses: Global Change and the Biosphere, Quantitative Skills, and Techniques for monitoring and modelling ecological responses of terrestrial ecosystems to global change. I also taught Fire Ecology for the University of Sao Paulo (USP) for 2009-2011.

Undergraduate teaching: Since 2016 I teach Biological Indicators for the BSc Environmental Sciences at UNEMAT, Brazil. I taught for the BSc on Physical Geography from SoGE (U. Oxford) Earth System Dynamics and Geographical Techniques – Earth Observation and Application in Geography, for the period 2016-2019.

SUPERVISION AND MENTORING

Post-doctoral researchers

Emma (2016-2017), Kasia (2017), Marina Scalon (2015-2019), Luciana de la Colleta (2018-2020), Jesus Aguirre-Gutierrez (2019-2021), Simone Reis (2018 – 2022), Wesley Jonatar Alves da Cruz (2021-present), Manoela Machado (2022 – present), Vinicius Moraes Peripato (2024 – present)

PhD candidates

2022 – Present Ty Loft, Clarendon & U.S. Fullbright Scholar. School of Geography and the Environment (SoGE), Preliminary thesis title: *Mapping the impacts of land use change on animal- and disturbance-mediated ecosystem function across African savanna*s. University of Oxford. Supervisor.

2022 – Present Natasha Lutz, Rhodes Scholar, SoGE, University of Oxford. Preliminary thesis title: *Estimating fuel loads and predicting fire probability across the Brazilian Cerrado*. Supervisor.

2022 – Present Francisco Navarro Rosales. Department of Biology, University of Oxford. Preliminary thesis title: *Stability of tropical forest and savanna dynamics in the face of global change*. Supervisor.

2021 - Present Helena Roland Rodrigues Lima. CNPQ scholarship. Instituto de Pesquisas do Jardim Botânico do Rio de Janeiro. Preliminary thesis title: Flammability of Neotropical altitudinal grasslands under global change. Co-Supervisor.

2019- present Leandro Alves, State University of Mato Grosso, Brazil. Self-funded. Preliminary thesis title: "*Fuel models and fire danger of Amazonian forests"*. Supervisor.

2022 – 2025 Gian Luca Spadoni. Italian Ministry University & Research Scholarship. Scola Universitaria de Pavia (Italy). Thesis title: Modelling fire regimes in social-ecological systems through spatial analysis. Co-supervisor.

2020 – 2025 Carlota Segura- Garcia, NERC-DTP in Environmental Research, SoGE, University of Oxford. Thesis title: The fire regimes of the Brazilian Cerrado under large-scale agricultural expansion and climate change Supervisor.

2019 – 2024 Monize Altomare de Paula. CNPQ scholarship. Federal University of Uberlándia (UFU), Brazil. Thesis title: Ecosystem services and resilience of the Cerrado roadside vegetation. Co-Supervisor.

2017 - 2018 Ilaine Matos – visiting doctoral student at U. Oxford (CNPQ). Co-supervisor

2020 – 2023 Tina Christmann**,** Rhodes scholar, SoGE, University of Oxford. Thesis title: An assessment of tropical mountain ecosystem restoration using remote sensing and socio-ecological approaches. Supervisor

2019 – 2024 Sean Reilly, Rhodes Scholar, SoGE, University of Oxford. Thesis title: 'Assessing the capacity of unoccupied aerial systems Structure-from-Motion (UAS-SfM_ for monitoring forest and fuel attributes in California, USA for improved fire hazard land management. Supervisor

2019- 2023 Huanyuan Zhang. SoGE, University of Oxford. Title: "Understanding the impact of drought on tropical ecosystems function". Co-supervisor.

2015-2018 Theresa Peprah**,** KNUST (Ghana) . Self-funded. Thesis title: "*Effects of seasonal drought over forest communities along a rainfall vegetation gradient in Ghana*". Co-supervisor.

2015-2019 Halina Jancoski**,** CAPES scholarship, State University of Mato Grosso, Brazil. Preliminary thesis title: "*Hydraulic properties of main species along a Neotropical forest-savanna transition*". Supervisor.

2015-2018 Anabelle W. Cardoso**,** Commonwealth scholar. SoGE. Thesis title: "*The role of elephants and fire on forest encroachment in African forest-savanna transitions*". *Supervisor.*

2014-2018 Agne Gvozdevaite**,** PhD scholarship associated to an ERC Grant**.** SoGE, University of Oxford. Thesis title: "*The role of functional leaf traits on environmental gradients*". Co-supervisor.

2011-2014 Viktoria Oliver. School of Earth and Environmental Sciences, University of St Andrews. Thesis title: "*The effect of land use on soil organic carbon dynamics in the Peruvian Andes*". Co-supervisor.

MPhil/MSc (2 year programmes)

2024 - 2025 Edouard Distin Carvalho, Master Biologie et Ecologie, Universite de Montpellier. Thesis: 'Relating patterns in woody stem respiration with plant funcitonal traits in the Cerrado'. Supervisor.

2020 – 2022 Ty Loft, SoGE, School of Geography and the Environment (SoGE), University of Oxford. Title: Revealing the political drivers of ecosystem degradation in wartime and post-conflict Angolan savannas. Supervisor. Published in Global Change Ecology (publication number 18)

2020 – 2022 Natasha Lutz, SoGE, School of Geography and the Environment (SoGE), University of Oxford. Title: Drivers of savanna degradation in Australia. Supervisor.

2022 – 2024 Andressa Fraga Cotta. Universidade do Estado do Rio de Janeiro, Brasil. Title: Conexões andino brasileiras: Variações espaciais na diversidade funcional, filogenética e na sensibilidade a mudanças climáticas em ambientes de topo de montanha neotropicais. Co-supervisor

2019- 2023 Maelly Alves Dallet. Title: ' Importantes e tao esquecidas: diversidade e biomassa de herbáceas em fitofisionomias da transição Amazonia-Cerrado. Universidade do Estado do Mato Grosso. Supervisor

2018 - 2021 Valeria Correa, Univrsidadde do Estado de Mato Grosso. Dinamica do efluxo de Co2 no solo no cerrado stricto sensu sob direrntes historicos de fogo. Supervisor

2019 – 2020 Sean O' Reilly. MPhil in Environmental Change and Management, Environmental Change Institute (ECI), University of Oxford. Title: "Building resilient landscapes to minimise fire hazard in California state". Supervisor.

2019 – 2020 Tina Christmann, MPhil in Biodiversity, Conservation and Management, SoGE, U. Oxford. Title: "The Functional Insurance to Environmental Change of the Treeline Vegetation in the Atlantic Forest". Supervisor.

2018 – 2019 Lyla O'Brian, MPhil in Biodiversity Conservation and Management, SoGE, U.Oxford. Preliminary thesis title: "Determining vulnerability of native tree species used in the Xingu Seed Network, Brazil, to different global change scenarios and potential impact to participant livelihoods". Supervisor. To be submitted August 2019.

2016 – 2018 Patrick Oliveira Costa, State University of Mato Grosso, Brazil. Dissertation title: "Evidence of post-fire resprouting in an Amazonian forest". Supervisor. Distinction

2015 – 2017 Micael Felipe de Moraes, State University of Mato Grosso, Brazil. Dissertation title: "Community composition, structure and diversity of forests in Serra das Araras Ecological Station, Mato Grosso". Supervisor. Pass

2014 – 2016 Eefke Veenengoor, Plant Ecology Group, Wageningen University. Dissertation title: "Leaf hydraulics of African seedlings related to water stress ". Co-supervisor. Pass.

2014 – 2016 Natascha Luijken, Plant Ecology Group, Wageningen University. Dissertation tittle: "Leaf temperature and photosynthetic capacity". Co-supervisor. Distinction.

2014 – 2016 David Martini, Plant Ecology Group, Wageningen University. Dissertation tittle: "The effect of drought and fire on photosynthetic activity of African seedlings". Co-supervisor. Distinction.

2013 – 2015 José Medina-Vega, Plant Ecology Group, Wageningen University. Dissertation tittle: "Fire ecology of the forest-savanna boundary". Co-supervisor. Distinction.

2011 Maarteen van den Eynden, School of Life Sciences, Norwegian University. Dissertation title: "Effects of fire history on species richness and carbon stocks in a Peruvian puna grassland, and

development of allometric equations for biomass estimation of common puna species". Co-supervisor. Distinction.

MSc (1 year programmes)

2023 – 2024 Milena Kozlowski. Master of Science, Università degli Studi di Padova, Italy and Research and Development Institute IRD. Dissertation title. Multi-scale governance analysis of integrated fire management in southeastern France. Supervisor.

2021 – 2022 Jorge Villa. Ecole nationale supérieure agronomique de Toulouse, agro-géomatique. Dissertation title: Caracterisation du regime des feux aux Andes tropicales. Supervisor

2021 – 2022 Francisco Navarro Rosales. School of Geography and Environment, Department of Biology. Dissertation title: The influence of fire on the aboveground net primary productivity and carbon allocation of cerrado sensi stricto. Supervisor.

2021 – 2022 Rodrigo Bello Carvalho. MSc Biodiversity Conservation and Management, SoGE, Oxford. DIssertation title: Frugivory and seed dispersal networks in the Brazilian Cerrado: Ecological insights and conservation challenges. Supervisor/

2021 – 2022 Zachary Posnik. MSc Biodiversity Conservation and Management, SoGE, Oxford. Dissertation title: Burned up not out: long-term impacts of decentralized controlled burning across Florida. Supervisor

2018 – 2019 Charles Emogor, MSc Biodiversity Conservation and Management, SoGE, U.Oxford. Dissertation title: "*WildGabon: conservation of large mammals in Gabon protected areas*". To be submitted in August 2019. Supervisor

2018 – 2019 Charles Tebbut: MSc Biodiversity, Conservation and Management, SoGE, U.Oxford. Dissertation title: "*Deforestation drivers in the Colombian Amazon in the post-conflict era".* To be submitted in August 2019. Supervisor

2017-2018 Li-Sham Lim, MSc Environmental Change and Management, ECI, U. Oxford. Dissertation title: "*Forest fires in western Mediterranean Europe: relationships observed in ground data with comparisons to Canada and Australia*". Supervisor. Distinction

2017-2018 Heidi Waite, MSc Biodiversity Conservation and Management, SoGE, U.Oxford. Dissertation title: "*Long-term effects of logging and altitude on vegetation patterns in the Brazilian Atlantic forest*". Supervisor. Merit.

2016-2017 Andrew Case. MSc Biodiversity, Conservation and Management, SoGE, U. Oxford. Dissertation title: "*Effects of a human altered landscape: implications of land-use change on the Xingu Indigenous Reserve, Brazil*". Supervisor. Merit.

2016-2017 Chad Burton. MSc Environmental Change and Management, SoGE, U. Oxford. Dissertation title: "*the interannual variability of tropical nett ecosystem exchange: and observation based analysis"*. Co-supervisor. Distinction.

2016-2017 Ian McGregor. MSc Environmental Change and Management, SoGE, U. Oxford. Dissertation title: "Flammability of grassland savannas in Gabon". Supervisor. Distinction.

2014-2015 Anabelle Williamson Cardoso, MSc Biodiversity Conservation and Management, SoGE, U.Oxford. Dissertation title: "Investigating suppression and resistance thresholds in tropical Weste African forest seedlings across a savanna-forest transition". Co-supervisor. Distinction.

2011-2012 Joanne Thompson MSc Biodiversity Conservation and Management, SoGE, U.Oxford. Dissertation title: "Calibration of MODIS fire product for the Andean Cusco region in southern Peru using Landsat images and construction of a fire history for the period 2000-2010. Supervisor. Distinction.

BSc (BA) student supervision: 51 students: 28 from UNEMAT, 9 from UR Wageningen, 3 from University of Oxford, 11 from Universidad del Cusco.

PhD dissertation examiner (last 5 years)

2024 Juliette Picard. The spatio-temporal dynamics of Marantaceae forests in central Africa. Université de Montpellier

2024 J.A. Muñoz Navarro. Assessing fire hazard of vegetation at the wildland-urban interface. Universitat Politècnica de Catalunya

2023 Daniela Krebber. *The role of biodiversity in tropical forest response to climate.* Universite de Montpellier.

2023 Katerine Escobar Torrez. *Résilience et vulnérabilité des savanes brésiliennes face aux incendies, au climat et aux activités anthropiques depuis la fin la dernière glaciation.* Universite de Motnpellier

2023	Miguel Olivo. *Macro e micro escala das alteracoes na vegetacao causadas por incendios e desmatamentos no ecotono amazonia-Cerrado-Pantanal, sudosete de Mato Grosso, Brazil*. Universidad do Estado de Mato Grosso.
2022	Feliz Troter. *Woody plant diversity in tropical savannas of Africa and Australia*. The University of Edinburgh.
2021	Ekena Rangel. *Structure and Function in Degraded Forests in the Amazon from Multi-source Remote Sensing*. University of Technology, Sydney.
2021	Mohd Hafiz Bin Mohd Hazir. *Climate Sensitivity of Rubber (Hevea brasiliensis) Plantations in Malaysia*. University of Leeds.
2021	Javier Galan. *Community assembly of exotic plant species across Mediterranean Regions'* . University of Sevilla.
2021	Takeshi Inagawa. *Nutrient Cycling of Bornean Tropical Forests*. University of Oxford.

ACADEMIC SERVICE (last 5 years)

SCIENTIFIC ADVISOR AND EDITORIAL BOARDS

2024 – 2026	Chair of Grant and Awards Committee, ATBC.
2024 - 2025	Guest editor: Special issue on Understanding novel fire regimes using plant trait-based approaches, American Journal of Botany.
2024	Associate Editor of Peer J Community.
2020	Guest editor: Special Virtual Issue on 'Climate Change in Tropical Biodiversity and Conservation'. Biotropica.
2019 – present	Scientific Council Member, Association for Tropical Biology and Conservation.
2019 – 2022	Scientific Council Member, Spanish Association for Terrestrial Ecology.
2017 – present	Associate editor, Journal of Ecology

REVIEWER

Journals: Science, Nature, Nature Communications, Comms Earth and Environment, Frontiers in Ecology and Evolution, New Phytologist, Global Change Biology, International Journal of Remote Sensing, Journal of Ecology, Environmental Research Letters, Plant and Soil, Journal of Biogeography, Plant Ecology and Diversity, Environmental Management, International Journal of Wildland Fire, Forest Ecology and Management, Acta Botânica, Brazilian Journal of Ecology, Brazilian Journal of Agricultural Sciences.

***Grant proposals*:** ERC Starting Grants**,** Agence Nationale de Recherche (ANR), National Sciences Foundation (NSF, US), Natural Environmental Research Council, (NERC, UK), Belgium Science Police Office (Belspo, Belgium), Association of Tropical Biology and Conservation (ATBC).

RESEARCH SOCIETY MEMBERSHIP

British Ecological Society, European Geosciences Union, Association of Tropical Biology and Conservation, American Geosciences Unions International Association for Wildland Fire, Asociación Española de Ecología Terrestre.

OUTREACH AND MEDIA ENGAGEMENT

2025 The Guardian: 'Fleeing mountain lions and scorched earth: can wildlife survive California's fires? (16/01/2025)
2024 Media associated to Gopalakrishna et al (2024): Research Highlight Nature India, Mongabay
2023 The Conversation: 'Nuestro planeta arde de una forma excepcional: así podemos proteger a las personas y a la naturaleza) (26/10/2023)
2023 Media associated to Doughty et al (2023): The Guardian, CNN, ABCNews, Scientific American, IRD
2020 Media associated to Aguirre-Gutierrez et al (2020): IOL South Africa.