Short CV

Prof. Dr. David Montenegro Lapola

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1. Education/Training

2011	Post-Doc in Earth System Science Funded by the Planetary Skin Institute	Center for Earth System Science, National Institute for Space Research - INPE, São José dos Campos, Brazil
2010	PhD in Earth System Modelling Funded by the Max Planck Society	Max Planck Institute / University of Kassel, Kassel, Germany
2007	MSc in Meteorology Funded by FAPESP Grant 04/12235-3	Center for Weather Forecast and Climate Studies, National Institute for Space Research - INPE, Cachoeira Paulista, Brazil
2005	BSc in Ecology Scientific Initiation funded by FAPESP Grant 02/10392-9	São Paulo State University – UNESP, Rio Claro, Brazil
2002	Internship Funded by the State University of New York	Biological Dynamics of Forest Fragments Project, National Institute for Amazon Research, Manaus, Brazil

2. Professional History

Jun/2017 – Jul/2017 **Visiting Professor / Honorary Fellow**, Institute for Advanced Study, Technical University Munich, Munich, Germany

Dec/2015 – today **President**, Scientific Steering Committee, AmazonFACE Research Program, Ministry of Science, Technology & Innovation, Brazil

Jan/2017 – today **Researcher**, Center for Meteorological and Agricultural Research Applied to Agriculture – CEPAGRI, University of Campinas, Campinas SP, Brazil

Dec/2014 – Dec/2016 **Coordinator**, Undergrad course in Ecology, São Paulo State University, Rio Claro – SP, Brazil

May/2011 – Dec/2016 **Assistant Professor**, Department of Ecology, São Paulo State University, Rio Claro – SP, Brazil

3. Most important scientific results (sorted by order of relevance)

Lapola, D. M., P. Pinho, C. A. Quesada, B. Strassburg, A. Rammig, et al. 2018. Limiting the high impacts of Amazon forest dieback with no-regrets science and policy action. *Proceedings of the National Academy of Sciences of the USA*, 115:11671-11679.

Lapola, D. M, R. J. Norby. 2014. *Amazon-FACE: Assessing the the effects of increased atmospheric CO_2 on the ecology and resilience of the Amazon forest – Science Plan and Implementation Strategy*. Brasília, Ministério de Ciência, Tecnologia e Inovação, 54p.

Lapola, D. M., L. A. Martinelli, C. A. Peres, J. P. H. B. Ometto, M. E. Ferreira, C. A. Nobre, et al. 2014. Pervasive transition of the Brazilian land-use system. *Nature Climate Change*, 4:27-35.

Lapola, D. M., R. Schaldach, J. Alcamo, A. Bondeau, J. Koch, C. Koelking & J. A. Priess. 2010. Indirect land-use changes can overcome carbon savings from biofuels in Brazil. *Proceedings of the National Academy of Sciences of the USA*, 107(8): 3388-3393.

Lapola, D. M., M. D. Oyama & C. A. Nobre. 2009. Exploring the range of climate-biome projections for tropical South America: the role of CO_2 fertilization and seasonality. *Global Biogeochemical Cycles*, 23(GB3003), doi:10.1029/2008GB003357.

Norby, R. J., M. G. De Kauwe, T. F. Domingues, R. A. Duursma, D. S. Ellsworth, D. S. Goll, D. M. Lapola, et al. 2016. Model-data synthesis for the next generation of forest free-air CO2 enrichment (FACE) experiments. *New Phytologist*, 209: 17-28.

Hofhansl, F., K. M. Andersen, K. Fleischer, L. Fuchslueger, A. Rammig, K. J. Schaap, O. J. Valverde-Barrantes, D. M. Lapola. 2016. Amazon forest ecosystem responses to elevated atmospheric CO_2 and alterations in nutrient availability: filling the gaps with model-experiment integration. *Frontiers in Earth Science*, 4: 19.

Darela-Filho, J. P., D. M. Lapola, R. R. Torres, M. C. Lemos. 2016. Socio-climatic hotspots in Brazil: how do changes driven by the new set of IPCC climatic projections affect their relevance for policy?. *Climatic Change*, doi:10. 1007/ s10584-016-1635-z. *** **RESULTADO DE BOLSA IC FAPESP PROC. 13/09742-0** ***

Torres, R. R., D. M. Lapola, J. Marengo & M. Lombardo. 2012. Socio-climatic hot-spots in Brazil. *Climatic Change*, 115: 597-609.

4. Ongoing Research Grants

2017-2018 **Principal Investigator,** AmazonFACE Assessing the impacts of increased atmospheric CO2 on the ecology and resilience of the Amazon forest. Funded by Serrapilheira Institute (Grant 1708-15574).

2016 – 2020 **Principal Investigator,** AmazonFACE∫ME – The AmazonFACE Model-Experiment Integration Project – rhe role of biodiversity and climate feedbacks. Funded by São Paulo Research Foundation - FAPESP (Grant 2015/02537-7).

2014-2018 **Scientific Coordinator**, *Amazon-FACE Program: assessing the effects of increased atmospheric CO_2 on the ecology and resilience of the Amazon forest*. Funded by Brazil's Ministry of Science, Technology and Innovation (MCTI) / Inter-American Development Bank (IDB) / Amazonas Research Foundation (FAPEAM).

2016-2018 **Coordinator**, Project: *Amazonia and Climate Change: a future in photos, illustrations and science (outreach book preparation)*. Funded by CNPq, Proc. 441877/2016-8.

2016-2018 **Associate Researcher**, Project: *CiAdapta: Cidades, Vulnerabilidade e Mudanças Climáticas: uma abordagem integrada e interdisciplinar para análise de ações e de capacidade adaptativa,* Coordinated by Prof. Dr. Gabriela Di Giulio, Faculdade de Saúde Pública/USP. Funded by CNPq, Call 23/2015.

5. Ongoing Supervisions

- PhD:
    1. João Paulo Darela Filho. Modeling the role of nutrients for the stability of the Amazon forest and its biodiversity in light of climate change. UNESP, Rio Claro. Funded by FAPESP.
    2. Moara A. Canova Teixeira. Unicamp, Campinas. Serviços ecossistêmicos e vulnerabilidade às mudanças climáticas globais: relações biofísicas e sociais na Amazônia central. Funded by CAPES. Co-supervised by Dr. Patricia Pinho, USP.
    3. Bianca F. Rius. Model-experiment integration on the impacts of increasing atmospheric CO_2 for carbon storage in tropical forests. Funded by CAPES.

6. Academic Quantitative Indicators

- *h* Index of scientific research impact: **17**
- Number of citations in Web of Science: **732** (21 articles)
- Articles published in indexed journals: **25**
- Book chapters: **3**
- Abstracts presented in scientific meetings: **26**
- Participation in the examining board of PhD, MSc and BSc: **9**
- Participation in International Conferences/Workshops/Meetings in the last 3 years: **8**
- Reviews to scientific journals: **12**, *Global Change Biology, Environmental Science and Technology, Ecological Economics, Biological Conservation, Ecology and Society, Plos One, Functional Plant Biology, Philosophical Transactions of the Royal Soc B, Conservation Letters, Env Model Software, Biogeosciences Discussions, Nature Communications*
- Concluded supervisions: (1 PhD, 3 MSc, 6 Scientific Initiation, 3 Univ. Extensions)

7. Google Scholar Profile:
https://scholar.google.com.br/citations?user=2SOat6UAAAAJ&hl=pt-BR&oi=ao

8. Other relevant information: permanent teacher/researcher at the following graduate schools: Ecology (Unicamp), Environment & Society (Unicamp) and Ecology & Biodiversity (Unesp).