Ana Margarida Gracio de Barros

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EDUCATION

2013	Рн.D. in Forestry and Natural Resources, Department of Natural Resources,
	Environment and Territory, University of Lisbon
2008	M.Sc. in Forestry and Natural Resources, Department of Forestry, Technical
	University of Lisbon
2006	LICENTIATE in Forestry and Natural Resources, Department of Forestry,
	Technical University of Lisbon

PROFESSIONAL APPOINTMENTS

2017-2018	Research associate, College of Forestry, Oregon State University
2014-2017	Postdoctoral scholar, College of Forestry, Oregon State University
2012-2014	Research fellow, The Navigator Company (ex-Grupo Portucel-Soporcel)

PUBLICATIONS

Refereed Journal Articles

2019	Barros, A.M.G., A.A. Ager, M.A. Day, P. Palaiologou "Improving long-term fuel
	treatment effectiveness in the National Forest System through quantitative
	prioritization", Forest Ecology and Management, doi:10.1016/j.foreco.2018.10.041
2018	Barros, A.M.G., A.A. Ager, M.A. Day and M. Krawchuk "Wildfires managed for
	restoration enhance ecological resilience", <i>Ecosphere</i> , doi:10.1002/ecs2.2161
2018	Ager, A.A., A.M.G. Barros , M.A. Day, H.K. Preisler, T.A. Spies and J. Bolte
	"Analyzing fine-scale spatiotemporal drivers of wildfire in a forest landscape
	model", Ecological Modelling, doi:10.1016/j.ecolmodel.2018.06.018

- Ager, A.A., P. Palaiologou, C. Evers, M.A. Day and **A.M.G. Barros**"Transboundary wildfire risk: Concepts and case study from the southwestern US", *Risk Analysis*, doi:10.1111/risa.12999
- Ager, A.A., **A.M.G Barros**, H.K. Preisler, M.A. Day, T.A. Spies, J. Bailey, J. Bolte "Effects of accelerated wildfire on future fire regimes and implications for US federal fire policy", *Ecology & Society*, doi:10.5751/ ES-09680-220412
- Panisset, J., C. DaCamara, R. Libonati, L.F. Peres, T. Calado, **A.M.G. Barros** "Assigning dates and identifying areas affected by fires in Portugal based on MODIS data", *Anais da Academia Brasileira de Ciencias*, doi:10.1590/0001-3765201720160707
- Mirra, I., T. M. Oliveira, **A.M.G. Barros**, P.M. Fernandes, "Fuel dynamics following fire hazard reduction treatments in blue gum Eucalyptus globulus plantations in Portugal", *Forest Ecology and Management*, doi:10.1016/j.foreco.2017.05.016
- Ager, A.A., C.R. Evers, M.A. Day, H.K. Preisler, **A.M.G. Barros**, M. Nielsen-Pincus, "Network analysis of wildfire transmission and implications for risk governance", *PLosOne*, doi:10.1371/journal.pone.0172867
- Barros, A.M.G., A.A. Ager, M.A. Day, H.K. Preisler, T.A. Spies, E. White, R. Pabst, K. Olsen, E. Platt, J.D. Bailey, J.P. and Bolte, "Spatiotemporal dynamics of simulated wildfire, forest management, and forest succession in central Oregon, USA", *Ecology and Society*, doi:10.5751/ES-08917-220124
- Spies, T.A., E. White, J. Bolte, J. Kline, A.A. Ager, E. Platt, K. Olsen, R. Pabst A.M.G. Barros, J. Bailey, S. Charnley, J. Koch, A. Morzillo, M. Steen-Adams, J. Sulzman, C. Schwartz, P. Singleton and C. Csuiti "Using an agent-based model to examine alternative futures of fire and ecosystem services in a multi-ownership landscape in Oregon", *Ecology & Society*, doi: 10.5751/ES-08841-220125
- 2017 Charnley S., T.A. Spies, **A.M.G. Barros**, E. White, and K. Olsen, "Heterogeneity in forest management to reduce wildfire losses: implications for resilience", *Ecology & Society*,doi:10.5751/ES-08753-220122
- Fernandes, P.M., **A.M.G. Barros**, A. Pinto and J.A. Santos, "Characteristics and controls of extremely large wildfires in the western Mediterranean Basin", *Journal of Geophysical Research: Biogeosciences*, doi:10.1002/2016JG003389
- Fernandes, P.M., T. Monteiro-Henriques, N. Guiomar, C. Loureiro and **A.M.G. Barros** (2016), "Bottom-Up Variables Govern Large Fire Size in Portugal", *Ecossystems*, doi":10.1007/s10021-016-0010-2
- Oliveira, T.M., **A.M.G. Barros**, A.A. Ager and P.M. Fernandes, "Assessing the effect of a fuel break network to reduce burnt area and wildfire transmission", *International Journal of Wildland Fire*, doi:10.107/WF15146
- Ager, A.A., **A.M.G. Barros** and M.A. Day, "Understanding the transmission of wildfire risk on a fire prone landscape: A case study from Central Oregon", *Geophysical Research Abstracts*, 17:EGU2015-15128
- Barros, A.M.G., A.A. Ager, H.K. Preisler, M.A. Day, T. Spies, and J. Bolte,

"Understanding coupled natural and human systems on fire prone landscapes: integrating wildfire simulation into an agent based planning system", Geophysical Research Abstracts, 17:EGU2015-11152-11152 **Barros**, **A.M.G.** and J.M.C. Pereira, "Wildfire selectivity for land cover type: 2014 Does size matter?", PLos ONE, doi:10.1371/journal.pone.oo847.60 Garcia-Portugues, E., A.M.G. Barros, R.M. Crujeiras, W. Gonzalez-Manteiga, and 2013 J.M.C Pereira, "A test for directional-linear independence, with applications to wildfire orientation and size", Stochastic Environmental Research and Risk Assessment, doi:10.1007/S00477-0130819-6 Barros, A.M.G., J.M.C. Pereira, M.A. Moritz, and S.L. Stephens, "Spatial 2013 Characterization of wildfire orientation patterns in California", Forests, doi:10.3390/f4010197 Barros, A.M.G., J.M.C Pereira, and U.J. Lund, "Identifying geographical patterns 2012 of wildfire orientation: A watershed-based analysis", Forest Ecology and Management, doi: 10/1016/j.foreco.2011/09/027 Other Publications Spies, T.A. and A.M.G. Barros, "Fuel Treatments: A Landscape and 2016 Multi-resource Problem", Western Forester 61:1, 7-9 AWARDS AND HONORS Best Student in the Technical University of Lisbon, Technical University of 2008 Lisbon 2006 Best Student in Forestry and Natural Resources, Technical University of Lisbon **GRANTS** Doctoral grant awarded by the Portuguese Foundation for Science and 2007 Technology (\$65k) **CONFERENCE PARTICIPATION**

Papers presented

2018

Barros, A.M.G., A.A. Ager, M.A Day "Success rate of alternative criteria for the prioritization of fuel management in the Deschutes National Forest", *The Fire Continuum Conference*, May 21-24, Missoula MT, USA

- Barros, A.M.G., A.A. Ager, M.A Day "Understanding the reliability of alternative wildfire exposure metrics", 2017, Symposium on Systems Analysis in Forest Resources, August 27-30, Suquamish WA, USA
- Barros, A.M.G., A.A. Ager, M.A. Day, R. Houtman, and J. Abatzoglou "Modeling the long-term effect of forest management on wildfire under alternative climate change scenarios", 2017, *Symposium on Systems Analysis in Forest Resources*, August 27-30, Suquamish WA, USA
- Barros, A.M.G., A.A. Ager and M.A. Day "Quantifying the reliability of alternative wildfire exposure metrics through space and time", 2017, *IV International Congress on Risks*, May 23-26, Coimbra, Portugal
- Barros, A.M.G, A.A. Ager, M.A. Day and H.K. Preisler "Modeling landscape change from alternative wildfire suppression policies", 2017, *US-IALE Annual Meeting*, April, 9-13, Baltimore MD, USA
- Barros, A.M.G, A.A. Ager and M.A. Day "Simulating the Joint Impacts of Wildfires and Fuel Management on Landscape Resiliency in Central Oregon USA", 5th International Fire Behavior and Fuels Conference, April 11-15, Portland OR, USA
- Barros, A.M.G., A.A. Ager, M.A. Day, H.K. Preisler, J. Abatzoglou and J. Kim "Fire Occurrence Under Climate Change in Central Oregon", 2016, 4th Central Oregon Fire Science Symposium, March 24-26, Bend OR, USA
- Barros, A.M.G., A.A. Ager, M.A. Day, H.K. Preisler, J. Abatzoglou and J. Kim "Wildfire in the Pacific Northwest under climate change", 2016, *US-IALE Annual Meeting*, April 3-7, Asheville NC, USA
- Barros, A.M.G, A.A. Ager, M.A. Day and H.K. Preisler "Towards a tipping point for fuel management: implications for forest restoration and wildfire dynamics in a multi-ownership landscape", 2015, 9th Annual IALE World Congress, Portland OR, USA
- Barros, A.M.G., A.A. Ager, H.K. Preisler, M.A. Day, T.A. Spies, and J. Bolte. "Understanding coupled natural and human systems on fire prone landscapes: integrating wildfire simulation into an agent based planning system", 2015

 European Geosciences Union General Assembly, April 12-17, Vienna, Austria
- Barros, A.M.G., T.M. Oliveira, and A.A. Ager "Assessing the impact of fuel uncertainty in the quantification of wildfire exposure", 2013, *IV Fire Behavior and Fuels Conference*, February, 18-22, St. Petersburg, Russia

As a co-author

- Houtman, R., A.A Ager, R. Seli and **A.M.G. Barros** "Modeling Long-Term Effects of Fuel Reduction on Fire Severity on the Deschutes National Forest" *The Fire Continuum Conference*, May 21-24, Missoula MT, USA
- Ager, A.A., **A.M.G. Barros**, F.J. Alcasena, P. Palaiologou, and C. Evers "A comparison of wildfire risk modeling methods used for mitigation planning in

the USA" IV International Congress on Risks, May 23-26, Coimbra, Portugal Ager, A.A., C. Evers, P. Palaiologou, M.A. Day, and A.M.G. Barros "Network 2017 analysis of wildfire transmission and implications for risk governance", 2017, Symposium on Systems Analysis in Forest Resources, August 27-30, Suquamish WA, USA Ager, A.A., R.H. Houtman, R. Seli, and A.M.G. Barros "Modeling the long-term 2017 effects of fuel reduction on fire severity and harvest values on the Deschutes National Forest", 2017, 51st Pacific Northwest Regional Economics Conference: Regions in Transition, May 23-25, Bend OR, USA Ager, A.A., R. Seli, R. Houtman, and A.M.G. Barros "Modeling the long term 2017 impact of large wildfires and forest restoration treatments on western US national forests", 2017 5thForest Vegetation Simulator (FVS) e-Conference, February 28 to March 2, web conference Ager, A.A., R. Seli, A.M.G. Barros and R. Houtman "Modeling management to 2016 reduce damages from mega-fires", 2016, 3rd Southwest Fire Ecology Conference, November 28 - December 2, Tucson AZ, USA Ager, A.A., **A.M.G. Barros**, and M.A. Day. "Understanding the transmission of 2015 wildfire risk on a fire prone landscape: A case study from Central Oregon.",2015 European Geosciences Union General Assembly, April 12-17, Vienna, Austria **INVITED CAMPUS TALKS** "Addressing forest management challenges with a landscape perspective." -2018 College of Natural Resources, University of California - Berkeley 2017 "Using Envision to model the long-term impacts of restoration and fuel management programs on wildfires." - School of Forestry, Northern Arizona University "Rural fires in Portugal: Ecology and research." - College of Forestry, Oregon 2015 State University PROFSSIONAL MEMBERSHIPS

LANGUAGES

Association for Fire Ecology

Since 2016

Portuguese, native English, fluent speaker, reader and writer