**Ecosystems Lab, Environmental Change Institute, School of Geography and the Environment, University of Oxford, OX13QY.**

1. **CURRENT POSITIONS**

* ***Departmental Research Lecturer on Ecosystems Science***, Environmental Change Institute, University of Oxford.
* ***Deputy Ecosystems Programme Leader,*** Environmental Change Institute, University of Oxford.
* ***Research Fellow*** on Tropical Ecology***,*** Oriel College, Oxford.
* ***Visiting Associate Professor***, Department of Environmental Sciences, State University of Mato Grosso (UNEMAT), Brazil.
* *Associate Researcher*, Study Centre for Technological Risk, *Polytechnic* University of Catalonia, Spain.
* *Co-founder and Scientific advisor*, Environmental Wise Paths Ltd (EWP), Brazil.

1. **PROFESSIONAL EXPERIENCE**

***2.1 Research experience***

* 11/2015 – 11/2016: ***Postdoctoral Research Fellow***, Environmental Change Institute, School of Geography and the Environment, University of Oxford.
* 11/2013 - 11/2015: ***Marie Curie Research Fellow***, Natural Resources and Plant Ecology Group, University of Wageningen (WUR), Netherlands.
* 09/2009 – 10/2013: ***Postdoctoral Research Associate***, Environmental Change Institute, School of Geography and the Environment, University of Oxford, UK.
* 09/2007-08/2009: ***Research Fellow (Beatriu de Pinós),*** Department of Ecology, University of São Paulo, Brazil.
* 01/2002-12/2006: Researcher (PhD), Centre for Ecological Research and Forestry Applications, Autonomous University of Barcelona, Spain.

***2.2 Teaching***

* 2017- present: Quantitative Skills Module, ***MSc on Environmental Change and Management***, Environmental Change Institute. Module leader
* 2017 – present: Techniques for monitoring and modelling ecological responses of terrestrial ecosystems to global change, MSc elective. ***School of Geography and the Environment***. Module leader.
* 2016: *Biological Indicators*, ***BSc on Environmental Sciences***, Universidade Estadual do Mato Grosso (UNEMAT).
* 2016, 2017: Tutorial *Earth Observation*Module, St’s Anne’s College, ***BSc Geography***, University of Oxford.
* 2016, 2017: *Tutorial Geographical Techniques – Earth Observation and Application in Geography*, St, Peter’s College, ***BSc Geography***, University of Oxford.
* 06/2015: *Plant, Vegetation and Systems Ecology*. ***BSc & MSc on Nature and Forest Management***, Wageningen University and Research.
* 06/2014: *Plant, Vegetation and Systems Ecology*. ***BSc & MSC on Nature and Forest Management***, Wageningen University and Research.

1. **EDUCATION**

* ***PhD in Environmental Sciences****.* Thesis title: *Number of fires, large forest fires and prescribed burning in Mediterranean ecosystems,* Institute of Environmental Research and Technology, Autonomous University of Barcelona, Spain. Awarded on 10th October, **2006**. Grade: ***Eximia cum Laude Approbatur.***
* ***MSc in Environmental Sciences***. Thesis title: *Generalisation of the fire rotation model to curved fire lines*, Centre for Forestry and Ecological Research, Autonomous University of Barcelona, Spain. Awarded on 4th March, **2004**. Grade: Excellent with Honours.
* ***BSc in Environmental Sciences***, Autonomous University of Barcelona, Spain. Awarded on 1st April 2000.

1. **AWARDS AND FUNDING**
   1. ***Funded grants (PI and Co-I)***

* 2018 - 2020: Drought-fire interactions on secondary Brazilian vegetation. FAPESP-Brazil, co-I.
* 2017 (6 months): ESPRC-GRCF: Improving remote sensing fire monitoring in the Colombian Orinoco Basin, PI.
* 2017-2019: Strategies for conserving Cerrado biodiversity and ecology: the role of fire as a management tool. John Fell Fund. PI.
* 2016-2019: BIOmes of Brasil – Resilience, Recovery and Diversity (BIO-RED). Newton-Fund - FAPESP Young Investigator Grant, co-PI. NERC NE/N012542/1.
* 2015-2018: Biotic Attributes of the Cerrado-Amazon boundary, Science without Borders. PI.
* 2013: Testing the fire trap hypothesis in Ghana, British Ecological Society. PI.
* 2012: Fire behaviour in the Tropical Andes. Research grant AGL2011-23425. Spanish Government. Co-I.
  1. ***Fellowships***
* 2016 – 2018: ***Young Investigator Fellowship,*** Fundação de Amparo à Pesquisa do Estado de São Paulo (FAPESP)*.*
* 2013-2015: Tipping Points on Tropical Forest-Savanna Transitions (TipTropTrans). ***Marie Curie Intra-European Fellowship***, European Commission FP7.
* 2007-2009: Postdoctoral Fellowship ***“Beatriu de Pinós”,*** Government of Catalonia
* 2003-2006: PhD scholarship “FPU”, Spanish Government.

1. **PROJECT PARTICIPATION (Other than PI/Co-I)**

* 2016-2018: Assessing ENSO-induced Fire Impacts in tropical Rainforest Ecosystems (AFIRE). Project Collaborator (PI Prof Jos Barlow, U. Lancaster). Duties: Supervise research on regeneration patterns in burned and unburned Amazonian ecosystems (MSc thesis Patrick de Oliveira).
* 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 methodologies, 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).
* 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 Comission EVR1- CT- 2002- 40028), PhD student (PI Jean Charles Valette).
* 2002-2004: EU-SPREAD: Forest fire prevention and mitigation (EU Comission EVG1-2001-00043), Research assistant (PI Domingos Xavier Viegas).

1. **STUDENT SUPERVISION** 
   1. ***Active***

|  |  |
| --- | --- |
| **PhD** | **Anabelle Williamson Cardoso**/SOGE- U. Oxford. Topic: *The role of elephants and fire on forest encroachment in African forest-savanna transitions.* |
| **Halina Jaconski**/Ecology, UNEMAT-Brazil. Topic: *Hydraulic properties of main species along a Neotropical forest-savanna transition.* |
| **Agne Gvozdevaite**/SOGE- U. Oxford. Topic: The role of functional leaf traits on environmental gradients |
| **Theresa Peprah**/KNUST (Ghana) - U.Oxford.. Topic: *Effects of seasonal drought over forest communities along a rainfall vegetation gradient in Ghana*.  **Ilaine Matos/**URFJ (Brazil) – Visiting PhD student, February-July 2018. |
| **MSc** | **Patrick de Oliveira Costa** (Environmental Sciences, UNEMAT). Title: Influência do fogo e ações de perturbação humana no processo de brotamento nos sistemas radiculares e caulinares em áreas de floresta Amazônica  **Silvana Aparecida de Lima Neves** (Environmental Sciences, UNEMAT); Title: Diversidade E Conservação De Plantas Medicinais Arbóreas Em Áreas De Transição Cerrado-Floresta Amazônica No Sudoeste De Mato Grosso, Brasil |
| 2018: **Heidi Waite** (MSC BCM, U. Oxford) – Long-term changes in forest structure and diversity along an altitudinal and disturbance gradient in the Atlantic forests. |

* 1. ***Completed***

|  |  |
| --- | --- |
| **PhD** | **Victoria Oliver**/U. Saint Andrews/2014/Excellent |
| **MSc** | Andrew Case/ MSc BCM/SOGE-Oxford/2017/Distinction  Ian McGregor/MsC ECM/SOGE-Oxford/2017/Distinction.  Eefke Venengoor/PEN – Wageningen UR/E.Veenendaal /2015/Pass  Natascha Luijken/PEN- Wageningen UR/B.Kruijt/2015/Pass  David Martini/PEN- Wageningen UR)/E.Veenendaal/2015/Excellent  **Anabelle Williamson Cardoso**/SOGE- U.Oxford/ Y.Malhi/2014/Distinction  **José Medina-Vega**/Wageninen UR)/E.Veenendaal/2014/Distinction  Joanne Thompson/SOGE- U.Oxford/Y.Malhi/2012/Distinctiont  Marteen van den Eynden/Norwegian Univesity / T.Haugaasen/ 2011/ Excellent |

1. **CONFERENCES, TALKS AND SEMINARS (last 5 years)**
   1. ***Invited talks and seminars***

* 2018: Guest lecturer, Biogeography modules, School of Geography, University of Southampton. Fire ecology. 11th May 2018.
* 2017: Invited OCTF Seminar, School of Geography and the Environment, UK. Dynamics of tropical vegetation transitions under global change. 27th January 2017.
* 2017: Invited Seminar, University of Edinburgh: Dynamics of tropical vegetation transitions in a drier and more flammable wold. 18th January 2017.
* 2015: Invited Seminar, University of Oxford. Are functional traits enough to explain community assemblage across forest-savanna transitions? 3 March 2015.
* 2014: Invited Seminar, Wageningen UR (The Netherlands). Seminar about effects of drought on tropical systems in the series of Earth & Environment Lecture Series “Pressing Environmental Issues for the 21st century”. 3rd September 2014.
* 2014: Invited Seminar. University of Campinas (Brazil). Talk: “Traits that may explain vegetation adaptations to fire worldwide”. 26th May 2014.
* 2014: Invited Lecturer. University of Mato Grosso State (Brazil). Talk: “The world is fire: stories of ecosystems shaped by fire”. 7 May 2014.
* 2013: Invited talk. Smithsonian Institute (Panama). Talk “Fire dynamics in the Tropical Andes”. 13th April 2013.
  1. ***Conference participation (5 years)***
* 54th Conference of the Association for Tropical Biology and Conservation Ecology. Merida, Mexico 9-14 July 2017. Oral presentation: Rate of spread, intensity, and heat stress decrease as tropical savanna fire approaches forest edge.
* 53th Conference of the Association for Tropical Biology and Conservation Ecology. Montpellier (France), 19-23 June 2016. Oral presentation: Many shades of green along tropical forest-savanna transitions.
* Annual Meeting of the European Society of Tropical Ecology. Gottingen (Germany), February 2016. Oral presentation: Can functional traits explain variability across tropical forest-savanna transitions?
* Annual workshop of the Andes Biodiversity and Ecosystem Research Group. Hilo (US), July 2015. Oral presentation: Is fire modifying Andean forest-grassland transitions?
* 52th Conference of the Association for Tropical Biology and Conservation Ecology. Honolulu (US), July 2015. Oral presentation: Intra- and inter-specific variation across tropical environmental gradients.
* Netherland Annual Ecology Meeting 2014 (11-12 February 2014). Oral presentation “Liking fire regimes, climate and biomass burning at different scales in the tropical Andes”.
* INTECOL 2013 (London, 18-23 August 2013). 2 Oral presentations: 1st Fire regimes and biomass burning emissions in the Tropical Andes: challenges for remote sensing derived data. 2nd: How resilient are tropical montane cloud forests to forest fires? A case study from the Tropical Andes.

1. **SYMPOSIUM AND WORKSHOP ORGANISER (last 5 years)**

* Symposium: Socio-ecological dimensions of changing fire regimes for tropical biodiversity conservation. Association for Tropical Biology and Conservation Ecology (ATBC) Conference, Merida, Mexico, 9-14 July **2017**.
* Annual Meeting of the *Tropical Biology Spanish Network* (Red Española de Biología Tropical), Asociación Española de Ecología Terrestre. in Barcelona 27-28 October **2016**. Co-convener: Josep Maria Espelta (CREAF).
* Workshop “*Traits and ecosystem function along environmental gradients”*. Organised by Ecosystems Lab, Environmental Change Institute, University of Oxford (Y. Malhi & I. Oliveras). Queralbs, Spain, 24-29 June **2016**. Co-convener: Yadvinder Malhi.
* Symposium *“Functional traits along tropical environmental gradients”*. Annual Meeting of the European Society for Tropical Ecology, Gottingen, 19-23 February **2016**. Co-convener: Masha van der Sande (Wageningen University).
* 5th Fire behaviour and fuels conference, Portland, 11-15 April 2016. Member of Program Committee.
* Symposium *“ The Dynamics of ecotones”*. Annual Ecology Meeting of the Netherlands, Ede, 9-11 February **2015.** Co-conveners: Marteen Eppinga (Utrecht University), Matty Berg (vrije Universitat).

1. **TRAINING/OUTREACH ACTIVITIES**

* 2018: Lecturer at Plant Functional Trait Field Course (PFTC3), 13-23 March 2018, organised byy Prof Vigdis Vandvik (U.Bergen) and Prof Brian Enquist (U. Arizona). https://www.uib.no/en/rg/EECRG/109375/plant-functional-traits-course-3
* 2014- present: Scientific advisor for Environmental Wise Paths, Ltd, Brazil. (<http://www.ewp.eco.br>) – voluntary.
* 2013-: Socio-Environmental Institute (Brazil). Historical drivers of deforestation influence the flammability of forest in the Xingu Indigenous Reserve. On-going collaborative consultancy ISA-INPE-EWP.
* Cusco Regional Government (Peru). Guidelines for fire use and fire management in the Cusco region, Peru. 3 months (09-12/2013).

1. **FURTHER ACADEMIC RELEVANT INFORMATION**

* 2017-present: Associate editor, Journal of Ecology
* Reviewer in more than 20 outstanding scientific journals, including Frontiers in Ecology and Evolution, New Phytologist, Global Change Biology.
* Member of British Ecological Society, Asociación Española de Ecología Terrestre, Association for Tropical Biology and Conservation.