

Short CV Dr. Nikolaos Fyllas

Education

Institution	Degree	Year
National Technical University of Athens	Diploma in Mechanical Engineering <i>Database of central heating emissions</i>	2001
Department of Environment, University of the Aegean	MSc in Environmental Policy and Management <i>Biodiversity & Climate Change Interactions</i>	2002
Department of Environment, University of the Aegean	PhD in Environmental Policy and Management <i>Forest Dynamics and Modelling</i>	2007

Current Position

Assistant Professor (Dec 2017 - ...), Ecology of Biospherical Processes, Department of Environment University of the Aegean.

Previous Positions

- Apr 2017 – Dec 2017 Assistant Researcher in Forest Informatics, Forest Research Institute, Hellenic Agricultural Organisation – Demeter.
- Mar 2015 – Mar 2017, Postdoctoral Researcher in Forest Modelling, Environmental Change Institute, School of Geography and the Environment, University of Oxford
- Sep 2011 – Mar 2015, Postdoctoral Research Fellow in Forest Ecophysiology & Modelling, Department of Ecology & Systematics, Faculty of Biology, National & Kapodistrian University of Athens
- Sep 2009 – Aug 2011, Marie Curie IEF Research Fellow, School of Geography, University of Leeds
- Sep 2007 – Aug 2009, Postdoctoral Research Associate in Global Plant Physiology, Earth and Biosphere Institute, School of Geography, University of Leeds

Further Education

- "*Integrated Assessment of Vulnerable Ecosystems under Global Change*", 2nd AVEC Summer School, organized by the Potsdam Institute for Climate Impact Research, Peyresq, France, September 2005.
- "*Forest Fires in the Perspective of Global Change*", Advanced Course, organized by the International Centre for Advanced Mediterranean Agronomic Studies (CIHEAM), Zaragoza, Spain, February 2012.

Fellowships & Awards

- PhD Fellowship (2002-2006) from the N Papadimitriou Foundation.
- Marie Curie Host PhD Fellowship (2004), School of Biological Sciences, University of Leeds.
- Visiting Fellow (2009), Research School of Biological Sciences, Australian National University.
- Marie Curie Intra-European Research Fellowship (2009-2011)
- Visiting Research Fellow (2014), University of Oxford, Oxford, UK
- Honorary Research Fellow (2017- ...) University of Oxford, Oxford, UK

International Research Networks

- RAINFOR, Amazon Forest Inventory Network. <http://www.geog.leeds.ac.uk/projects/rainfor/>
- TRY - Plant Trait Database. <http://www.try-db.org/TryWeb/Home.php>
- TerraBites (The Terrestrial Biosphere in the Earth System) Research Network <http://www.terrabitest.net/>

Reviewer for Scientific Journals

Ecological Modelling, Ecology and Evolution, Ecosciences, Global Ecology and Biogeography, Journal of Ecology, Journal of Plant Ecology, Landscape Ecology, New Phytologist, Plant and Soil, Regional Environmental Change, Trees.

Teaching Experience

Undergraduate Level (Department of Environment, University of the Aegean)

- Introduction to Computer Programming for Environmental Scientists (2005-2006)
- Ecological Theory II (2015)
- Research Methods II (2018)

Postgraduate Level Lectures on Theoretical and Applied Ecology and Ecological Modelling in various MSc programs including:

- International Masters in Environmental Sciences, Policy and Management (MESPOM), Central European University – University of Manchester – University of Lund – University of the Aegean
- Ecology & Global Change, School of Geography, University of Leeds, Masters in Ecology and Global Change
- Biodiversity Conservation (BIODIV), University Montpellier II-ECOLAG - University of the Aegean
- Environmental Law, Department of Environmental Engineering, Democritus University of Thrace
- Environmental Behavior, Department of Environmental Engineering, Democritus University of Thrace

Summerschools

- Ecological Data Analysis, ECODAR (2013-2015)

Theses Supervision

Supervision of more than twenty (20) undergraduate and postgraduate student research projects in the fields of Functional Ecology, Ecological Modelling, Dendroecology and Forest Policy & Management, at different institutions including the School of the Environment, University of the Aegean, the Faculty of Biology University of Athens, the School of Geography University of Leeds and the Department of Environmental Engineering, Democritus University of Thrace.

PhD Examination Board

- Kalaroni Sofia 2017. *Development and implementation of an ecological model for the simulation of the Mediterranean marine ecosystem and assimilation techniques of satellite ecological data*. Department of Ecology and Systematics, National and Kapodistrian University of Athens.

Completed Research Project

Title: BIOBUS Biodiversity Resources for Innovative Business Development (2006-2007)

Funding: FP6 European Commission.

Role: Postdoctoral Researcher

Institution: Department of Environment University of the Aegean

Title: Quantifying and Understanding the Earth System QUEST (2007-2009)

Funding: National Environment Research Council, UK

Role: Postdoctoral Researcher

Institution: School of Geography, University of Leeds

Title: INTRABASIS: Development of an Individual Trait-Based Simulator for the Amazonian Forest Dynamics (2009-2011)

Funding: European Commission FP7, Marie Curie Intra-European Research Fellowships (IEF)

Role: Research Fellow, Principal Investigator

Institution: School of Geography, University of Leeds

Title: FUME: Forest Fires under Climate, Social and Economic Changes in Europe, the Mediterranean and other Fire-affected Areas of the World (2011-2012)

Funding: FP7 European Commission

Role: Postdoctoral Researcher

Institution: Faculty of Biology, National and Kapodistrian University of Athens

Title: MEDIT: Mediterranean Forests in Transition (2012-2015)

Funding: General Secretariat for Research and Technology

Role: Research Fellow, Principal Investigator

Institution: Faculty of Biology, National and Kapodistrian University of Athens

Title: GEM-Traits, Global Ecosystem Monitoring (2015-2017)

Funding: European Research Council

Role: Postdoctoral Researcher

Institution: Environmental Change Institute, School of Geography & the Environment, University of Oxford

Consultancy Experience

Lead author for the Cyprus Climate Change Risk Assessment for the Biodiversity and Ecosystem Services and the Forest Sector Reports.

Member of the Biodiversity and Ecosystem Services Team for the Bank of Greece Report on Climate Change Adaptation.

In national and international Biodiversity Conservation and Management projects, for example:

LIFE-NATURE: ICOSTACY Project: "Improving the Conservation Status of Fauna Species in Cyprus."

Greek National Monitoring Project "Assessing the conservation status of Amphibians and Reptiles".

Greek National Monitoring Project "Assessing the conservation status of Mammals".

Peer reviewed ISI Publications

ORCID ID: <https://orcid.org/0000-0002-5651-5578>

Citation Report (10/1/2018):

Web of Science: 1567, h-index: 17, Scopus: 2133: h-index: 18, Google Scholar: 3131, h-index: 24

36. Fauset S, Gloor MU, Aidar MPM, Freitas HC, **Fyllas NM**, Marabesi MA, Rochelle ALC, Shenkin A, Vieira SA, Joly CA (2017). Tropical forest light regimes in a human-modified landscape. *Ecosphere*, 8, e02002.
35. **Fyllas NM**, Patrick Bentley L, Shenkin A, Asner GP, Atkin OK, Díaz S, Enquist BJ, Farfan-Rios W, Gloor E, Guerrieri R, Huaraca Huasco W, Ishida Y, Martin RE, Meir P, Phillips O, Salinas N, Silman M, Weerasinghe LK, Zaragoza-Castells J and Malhi Y (2017) Solar radiation and functional traits explain the decline of forest primary productivity along a tropical elevation gradient. *Ecology Letters*, 20: 730-740.
34. **Fyllas NM**, Christopoulou A, Galanidis A, Michelaki CZ, Dimitrakopoulos PG, Fulé PZ, and Arianoutsou M (2017) Tree growth-climate relationships in a forest-plot network on Mediterranean mountains. *Science of the Total Environment*, 598: 393-403.
33. Blonder B, Salinas N, Patrick Bentley L, Shenkin A, Chambi Porroa PO, Valdez Tejeira Y, Violle C, **Fyllas NM**, Goldsmith GR, Martin R, Asner GP, Díaz S, Enquist BJ, Malhi Y (2017) Predicting trait-environment relationships for venation networks along an Andes-Amazon elevation gradient. *Ecology* 98(5):1239-1255.

32. **Fyllas NM**, Christopoulou A, Galanidis A, Michelaki CZ, Giannakopoulos C, Dimitrakopoulos PG, Arianoutsou M, Gloor M (2017) Predicting species dominance shifts across elevation gradients at mountain forests in Greece under a warmer and drier climate, *Regional Environmental Change*, 17:1165-1177.
31. Souza FC de, Dexter KG, Phillips OL, Brienen RJW, Chave J, Galbraith DR, Gonzalez GL, Mendoza AM, Pennington RT, Poorter L, Alexiades M, Álvarez-Dávila E, Andrade A, Aragão LEOC, Araujo-Murakami A, Arets EJMM, C GAA, Baraloto C, Barroso JG, Bonal D, Boot RGA, Camargo JLC, Comiskey JA, Valverde FC, Camargo PB de, Fiore AD, Elias F, Erwin TL, Feldpausch TR, Ferreira L, **Fyllas NM**, Gloor E, Herault B, Herrera R, Higuchi N, Coronado ENH, Killeen TJ, Laurance WF, Laurance S, Lloyd J, Lovejoy TE, Malhi Y, Maracahipes L, Marimon BS, Marimon-Junior BH, Mendoza C, Morandi P, Neill DA, Vargas PN, Oliveira EA, Lenza E, Palacios WA, Peñuela-Mora MC, Pipoly JJ, Pitman NCA, Prieto A, Quesada CA, Ramirez-Angulo H, Rudas A, Ruokolainen K, Salomão RP, Silveira M, Stropp J, Steege H ter, Thomas-Caesar R, Hout P van der, Heijden GMF van der, Meer PJ van der, Vasquez RV, Vieira SA, Vilanova E, Vos VA, Wang O, Young KR, Zagt RJ, Baker TR (2016) Evolutionary heritage influences Amazon tree ecology. *Proceedings of the Royal Society – Biological Sciences* 283:20161587.
30. Christoffersen BO, Gloor M, Fauset S, **Fyllas NM**, Galbraith DR, Baker TR, Rowland L, Fisher RA, Binks OJ, Sevanto SA, Xu C, Jansen S, Choat B, Mencuccini M, McDowell NG, Meir P (2016). Linking hydraulic traits to tropical forest function in a size-structured and trait-driven model (TFS v.1-Hydro), *Geoscientific Model Development* 9, 4227–4255
29. Turnbull MH, Griffin KL, **Fyllas NM**, Lloyd J, Meir P, Atkin OK (2016) Separating species and environmental determinants of leaf functional traits in temperate rainforest plants along a soil-development chronosequence. *Functional Plant Biology*. 43: 751-765.
28. Baker TR, Vela Díaz DM, Chama Moscoso V, Navarro G, Monteagudo A, Pinto R, Cangani K, **Fyllas NM**, Lopez Gonzalez G, Laurance WF, Lewis SL, Lloyd J, ter Steege H, Terborgh JW, Phillips OL (2016) Consistent, small effects of treefall disturbances on the composition and diversity of four Amazonian forests. *Journal of Ecology* 104:497–506.
27. Cowling RM, Potts AJ, Bradshaw PL, Colville J, Arianoutsou M, Ferrier S, Forest F, **Fyllas NM**, Hopper SD, Ojeda F, Procheş Ş, Smith RJ, Rundel PW, Vassilakis E, Zutta BR (2015) Variation in plant diversity in mediterranean-climate ecosystems: the role of climatic and topographical stability. *Journal of Biogeography* 42:552–564.
26. Veenendaal EM, Torello-Raventos M, Feldpausch TR, Domingues TF, Gerard F, Schrodte F, Saiz G, Quesada CA, Djagbletey G, Ford A, Kemp J, Marimon BS, Marimon-Junior BH, Lenza E, Ratter JA, Maracahipes L, Sasaki D, Sonké B, Zapfack L, Villarreal D, Schwarz M, Yoko Ishida F, Gilpin M, Nardoto GB, Affum-Baffoe K, Arroyo L, Bloomfield K, Ceca G, Compaore H, Davies K, Diallo A, **Fyllas NM**, Gignoux J, Hien F, Johnson

- M, Mougín E, Hiernaux P, Killeen T, Metcalfe D, Miranda HS, Steininger M, Sykora K, Bird MI, Grace J, Lewis S, Phillips OL, Lloyd J (2015) Structural, physiognomic and above-ground biomass variation in savanna–forest transition zones on three continents – how different are co-occurring savanna and forest formations? *Biogeosciences* 12:2927–2951.
25. Atkin OK, Bloomfield KJ, Reich PB, Tjoelker MG, Asner GP, Bonal D, Bönisch G, Bradford MG, Cernusak LA, Cosio EG, Creek D, Crous KY, Domingues TF, Dukes JS, Egerton JJG, Evans JR, Farquhar GD, **Fyllas NM**, Gauthier PPG, Gloor E, Gimeno TE, Griffin KL, Guerrieri R, Heskell MA, Huntingford C, Ishida FY, Kattge J, Lambers H, Liddell MJ, Lloyd J, Lusk CH, Martin RE, Maksimov AP, Maximov TC, Malhi Y, Medlyn BE, Meir P, Mercado LM, Mirotchnick N, Ng D, Niinemets Ü, O’Sullivan OS, Phillips OL, Poorter L, Poot P, Prentice IC, Salinas N, Rowland LM, Ryan MG, Sitch S, Slot M, Smith NG, Turnbull MH, VanderWel MC, Valladares F, Veneklaas EJ, Weerasinghe LK, Wirth C, Wright IJ, Wythers KR, Xiang J, Xiang S, Zaragoza-Castells J (2015) Global variability in leaf respiration in relation to climate, plant functional types and leaf traits. *New Phytologist* 206:614–636.
24. Koufos G, Mavromatis T, Koundouras S, **Fyllas NM**, Jones GV (2014) Viticulture-climate relationships in Greece: the impacts of recent climate trends on harvest date variation. *International Journal of Climatology* 34:1445–1459.
23. Kint V, Aertsens W, **Fyllas NM**, Trabucco A, Janssen E, Özkan K, Muys B (2014) Ecological traits of Mediterranean tree species as a basis for modelling forest dynamics in the Taurus mountains, Turkey. *Ecological Modelling* 286:53–65.
22. Christopoulou A, **Fyllas NM**, Andriopoulos P, Koutsias N, Dimitrakopoulos PG, Arianoutsou M (2014) Post-fire regeneration patterns of *Pinus nigra* in a recently burned area in Mount Taygetos, Southern Greece: The role of unburned forest patches. *Forest Ecology and Management* 327:148–156.
21. Adamidis GC, Kazakou E, **Fyllas NM**, Dimitrakopoulos PG (2014) Species Adaptive Strategies and Leaf Economic Relationships across Serpentine and Non-Serpentine Habitats on Lesbos, Eastern Mediterranean. *PLOS ONE* 9:e96034.
20. **Fyllas NM**, Gloor E, Mercado LM, Sitch S, Quesada CA, Domingues TF, Galbraith DR, Torre-Lezama A, Vilanova E, Ramírez-Angulo H, Higuchi N, Neill DA, Silveira M, Ferreira L, Aymard C. GA, Malhi Y, Phillips OL, Lloyd J (2014) Analysing Amazonian forest productivity using a new individual and trait-based model (TFS v.1). *Geoscientific Model Development* 7:1251–1269.
19. Atkin OK, Turnbull MH, Zaragoza-Castells J, **Fyllas NM**, Lloyd J, Meir P, Griffin KL (2013) Light inhibition of leaf respiration as soil fertility declines along a post-glacial chronosequence in New Zealand: an analysis using the Kok method. *Plant Soil* 367:163–182.

18. Torello-Raventos M, Feldpausch TR, Veenendaal E, Schrodte F, Saiz G, Domingues TF, Djangbletey G, Ford A, Kemp J, Marimon BS, Junior BHM, Lenza E, Ratter JA, Maracahipes L, Sasaki D, Sonké B, Zapfack L, Taedoumg H, Villarreal D, Schwarz M, Quesada CA, Ishida FY, Nardoto GB, Affum-Baffoe K, Arroyo L, Bowman DMJS, Compaore H, Davies K, Diallo A, **Fyllas NM**, Gilpin M, Hien F, Johnson M, Killeen TJ, Metcalfe D, Miranda HS, Steininger M, Thomson J, Sykora K, Mougou E, Hiernaux P, Bird MI, Grace J, Lewis SL, Phillips OL, Lloyd J (2013) On the delineation of tropical vegetation types with an emphasis on forest/savanna transitions. *Plant Ecology & Diversity* 6:101–137.
17. Patiño S, **Fyllas NM**, Baker TR, Paiva R, Quesada CA, Santos AJB, Schwarz M, ter Steege H, Phillips OL, Lloyd J (2012) Coordination of physiological and structural traits in Amazon forest trees. *Biogeosciences* 9:775–801.
16. Swenson NG, Enquist BJ, Pither J, Kerkhoff AJ, Boyle B, Weiser MD, Elser JJ, Fagan WF, Forero-Montaña J, **Fyllas NM**, Kraft NJB, Lake JK, Moles AT, Patiño S, Phillips OL, Price CA, Reich PB, Quesada CA, Stegen JC, Valencia R, Wright IJ, Wright SJ, Andelman S, Jørgensen PM, Lacher Jr TE, Monteagudo A, Núñez-Vargas MP, Vasquez-Martínez R, Nolting KM (2012) The biogeography and filtering of woody plant functional diversity in North and South America. *Global Ecology and Biogeography* 21:798–808.
15. Quesada CA, Phillips OL, Schwarz M, Czimczik CI, Baker TR, Patiño S, **Fyllas NM**, Hodnett MG, Herrera R, Almeida S, Alvarez Dávila E, Arneeth A, Arroyo L, Chao KJ, Dezzio N, Erwin T, di Fiore A, Higuchi N, Honorio Coronado E, Jimenez EM, Killeen T, Lezama AT, Lloyd G, López-González G, Luizão FJ, Malhi Y, Monteagudo A, Neill DA, Núñez Vargas P, Paiva R, Peacock J, Peñuela MC, Peña Cruz A, Pitman N, Priante Filho N, Prieto A, Ramírez H, Rudas A, Salomão R, Santos AJB, Schmerler J, Silva N, Silveira M, Vásquez R, Vieira I, Terborgh J, Lloyd J (2012) Basin-wide variations in Amazon forest structure and function are mediated by both soils and climate. *Biogeosciences* 9:2203–2246.
14. **Fyllas NM**, Quesada CA, Lloyd J (2012) Deriving Plant Functional Types for Amazonian forests for use in vegetation dynamics models. *Perspectives in Plant Ecology, Evolution and Systematics* 14:97–110.
13. Mercado LM, Patiño S, Domingues TF, **Fyllas NM**, Weedon GP, Sitch S, Quesada CA, Phillips OL, Aragão LEOC, Malhi Y, Dolman AJ, Restrepo-Coupe N, Saleska SR, Baker TR, Almeida S, Higuchi N, Lloyd J (2011) Variations in Amazon forest productivity correlated with foliar nutrients and modelled rates of photosynthetic carbon supply. *Philosophical Transactions of the Royal Society of London B: Biological Sciences* 366:3316–3329.
12. Quesada CA, Lloyd J, Anderson LO, **Fyllas NM**, Schwarz M, Czimczik CI (2011) Soils of Amazonia with particular reference to the RAINFOR sites. *Biogeosciences* 8:1415–1440.
11. Feldpausch TR, Banin L, Phillips OL, Baker TR, Lewis SL, Quesada CA, Affum-Baffoe K, Arets EJMM, Berry NJ, Bird M, Brondizio ES, de Camargo P, Chave J, Djangbletey G, Domingues TF, Drescher M, Fearnside PM,

- França MB, **Fyllas NM**, Lopez-Gonzalez G, Hladik A, Higuchi N, Hunter MO, Iida Y, Salim KA, Kassim AR, Keller M, Kemp J, King DA, Lovett JC, Marimon BS, Marimon-Junior BH, Lenza E, Marshall AR, Metcalfe DJ, Mitchard ETA, Moran EF, Nelson BW, Nilus R, Nogueira EM, Palace M, Patiño S, Peh KS-H, Raventos MT, Reitsma JM, Saiz G, Schrodte F, Sonké B, Taedoumg HE, Tan S, White L, Wöll H, Lloyd J (2011) Height-diameter allometry of tropical forest trees. *Biogeosciences* 8:1081–1106.
10. Kattge J, Díaz S, Lavorel S, Prentice IC, Leadley P, Bönlisch G, Garnier E, Westoby M, Reich PB, Wright IJ, et al (2011) TRY – a global database of plant traits. *Global Change Biology* 17:2905–2935.
9. Papanikolaou AD, **Fyllas NM**, Mazaris AD, Dimitrakopoulos PG, Kallimanis AS, Pantis JD (2011) Grazing effects on plant functional group diversity in Mediterranean shrublands. *Biodiversity and Conservation* 20:2831–2843.
8. Quesada CA, Lloyd J, Schwarz M, Patiño S, Baker TR, Czimczik C, **Fyllas NM**, Martinelli L, Nardoto GB, Schmerler J, Santos AJB, Hodnett MG, Herrera R, Luizão FJ, Arneith A, Lloyd G, Dezzio N, Hilke I, Kuhlmann I, Raessler M, Brand WA, Geilmann H, Moraes Filho JO, Carvalho FP, Araujo Filho RN, Chaves JE, Cruz Junior OF, Pimentel TP, Paiva R (2010) Variations in chemical and physical properties of Amazon forest soils in relation to their genesis. *Biogeosciences* 7:1515–1541.
7. **Fyllas NM**, Politi PI, Galanidis A, Dimitrakopoulos PG, Arianoutsou M (2010) Simulating regeneration and vegetation dynamics in Mediterranean coniferous forests. *Ecological Modelling* 221:1494–1504.
6. Lloyd J, Goulden ML, Ometto JP, Patiño S, **Fyllas NM** and Quesada CA 2009: Ecophysiology of Forest and Savana Vegetation. pp 464-484. In: Amazonia and Global Change, M. Keller, M. Bustamante, J. Gash, and P.S. Dias, Editors. American Geophysical Union, Geophysical Monograph Series. Volume 186, 576 pp.
5. **Fyllas NM**, Patiño S, Baker TR, Bielefeld Nardoto G, Martinelli LA, Quesada CA, Paiva R, Schwarz M, Horna V, Mercado LM, Santos A, Arroyo L, Jiménez EM, Luizão FJ, Neill DA, Silva N, Prieto A, Rudas A, Silveira M, Vieira ICG, Lopez-Gonzalez G, Malhi Y, Phillips OL, Lloyd J, 2009. Basin-wide variations in foliar properties of Amazonian forest: phylogeny, soils and climate. *Biogeosciences* 6, 2677–2708.
4. Phillips OL, van der Heijden G, Lewis SL, López-González G, Aragão LEOC, Lloyd J, Malhi Y, Monteagudo A, Almeida S, Dávila EA, Amaral I, Andelman S, Andrade A, Arroyo L, Aymard G, Baker TR, Blanc L, Bonal D, de Oliveira ÁCA, Chao K-J, Cardozo ND, da Costa L, Feldpausch TR, Fisher JB, **Fyllas NM**, Freitas MA, Galbraith D, Gloor E, Higuchi N, Honorio E, Jiménez E, Keeling H, Killeen TJ, Lovett JC, Meir P, Mendoza C, Morel A, Vargas PN, Patiño S, Peh KS-H, Cruz AP, Prieto A, Quesada CA, Ramírez F, Ramírez H, Rudas A, Salamão R, Schwarz M, Silva J, Silveira M, Ferry Slik JW, Sonké B, Thomas AS, Stropp J, Taplin JRD, Vásquez R, Vilanova E (2010) Drought–mortality relationships for tropical forests. *New Phytologist* 187:631–646.

3. **Fyllas NM**, Troumbis AY, 2009. Simulating vegetation shifts in north-eastern Mediterranean mountain forests under climatic change scenarios. *Global Ecology and Biogeography* 18, 64–77.
2. **Fyllas NM**, Dimitrakopoulos PG, Troumbis AY, 2008. Regeneration dynamics of a mixed Mediterranean pine forest in the absence of fire. *Forest Ecology and Management* 256, 1552–1559.
1. **Fyllas NM**, Phillips OL, Kunin WE, Matsinos YG, Troumbis AI, 2007. Development and parameterization of a general forest gap dynamics simulator for the North-eastern Mediterranean Basin (GREEK FOREST SPECIES). *Ecological Modelling* 204, 439–456.