

# Curriculum Vitae, Nikolaos M. Fyllas (Jan 2024)

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## Education

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- 9/2002 - 3/2007: University of the Aegean, PhD in Ecological Modelling  
9/2001 - 9/2002: University of the Aegean, MSc in Environmental Policy and Management  
9/1995 - 2/2001: NTUA, School of Mechanical Engineering, Dept of Thermal Engineering

## Current Post

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Assistant Professor, Terrestrial Ecology (2024 - ...), Department of Biology, National & Kapodistrian University of Athens, Greece.

## Awards and Fellowships

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- Marie Curie Host PhD Fellowship (2004), University of Leeds
- Visiting Research Fellow (2009), Research School of Biological Sciences, Australian National University.
- Marie Curie Intra-European Postdoc Research Fellowship (2009-2011), University of Leeds
- Visiting Research Fellow (2014), School of Geography & the Environment, University of Oxford
- Fellow of the General Secretariat for Research and Technology (2012-2015), Greece.
- Honorary Research Fellow (2017), School of Geography & the Environment, University of Oxford

## Working Experience

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- Assistant Professor, Ecology of Biospherical Processes (2018-2023), Department of Environment University of the Aegean, Greece.
- Permanent Researcher in Forest Informatics (2017-2018), Forest Research Institute, Hellenic Agricultural Organisation, Greece.
- Postdoctoral Researcher in Forest Dynamics and Modelling (2015-2017), Environmental Change Institute, School of Geography & the Environment, University of Oxford, UK.
- Postdoctoral Researcher in Forest Dynamics and Modelling (2011-2015), Department of Biology, National & Kapodistrian University of Athens, Greece.
- Postdoctoral Researcher in Global Plant Physiology (2007-2011), Ecology & Global Change, School of Geography, University of Leeds, UK.

## Teaching Experience

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### Undergraduate Courses:

Statistics (2019-2023, UAegean), Quantitative methods in ecosystem analysis (2018-2023, UAegean), Ecosystem dynamics and modelling (2018-2023, UAegean), Research methods (2018-2019, UAegean), Theoretical Ecology (2014, UAegean), Introduction to computer science (2005-2006, UAegean).

### Postgraduate Courses:

Biospherical Processes (2018-2023, UAegean), Applied Ecology (2018-2023, MESPOM), Assessment, Modelling and Scenarios for Ecosystems Management (2019-2022, MESPOM), Introduction to R & Python (2022 - ..., NKUA), Statistics and Ecological Modelling (2018 - ..., NKUA)

## **Thesis Supervision**

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Undergraduate theses: Twenty-five (25) in the fields of Ecology and Ecological modelling

Postgraduate theses: Twenty-two (22) in the fields of Ecology and Environmental Management

PhD: Three (ongoing)

## **International Research Groups & Networks**

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- FORESTPLOTS.NET <https://forestplots.net/>
- TRY - Plant Trait Database <https://www.try-db.org/TryWeb/Home.php>
- COST CA21138 – **WG2 Leader** - Joint effects of CLimate Extremes and Atmospheric deposition on European FORESTs (CLEANFOREST) <https://www.cost.eu/cost-action/joint-effects-of-climate-extremes-and-atmospheric-deposition-on-european-forests>

## **Peer-Reviewed Publications**

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

63 Research publication in ISI Journals

Citation Report (07/12/2023):

Scopus: 6929; h-index: 29, Google Scholar: 9888, h-index: 34

### **Key publications**

- Fyllas NM et al. (2022) Photosynthetic and defensive responses of two Mediterranean oaks to insect leaf herbivory. *Tree Physiology* 42 (11), 2282-2293
- Fyllas NM et al. (2020) Functional trait variation among and within species and plant functional types in mountainous mediterranean forests. *Frontiers in Plant Science* 11, 212
- Fyllas NM et al. (2017) Solar radiation and functional traits explain the decline of forest primary productivity along a tropical elevation gradient. *Ecology Letters*, 20: 730-740
- Fyllas NM et al. (2017) Tree growth-climate relationships in a forest-plot network on Mediterranean mountains. *Science of the Total Environment*, 598: 393-403.
- Fyllas NM et al. 2014. Analysing Amazonian forest productivity using a new individual and trait-based model (TFS v.1), 2014. *Geoscientific Model Development*, 7, 1251-1269.
- 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.
- Fyllas NM et al. 2009. Basin-wide variations in foliar properties of Amazonian forest: phylogeny, soils and climate. *Biogeosciences* 6, 2677–2708.
- Fyllas NM and Troumbis AY, 2009. Simulating vegetation shifts in north-eastern Mediterranean mountain forests under climatic change scenarios. *Global Ecology and Biogeography* 18, 64–77

## Key Scientific Reports

- Academy of Athens Committee for the Resilience of the Greek Forest Ecosystems to Climate Change (2023)
- Cyprus Climate Change Risk Assessment Report (2016)
- Greek National Adaptation Strategy to Climate Change (2015)

## Completed and Ongoing Research Project

Title	Funding Agency	Institution	Period	Role
Projecting the impacts of climate change on forest ecosystems in Greece - An integrated forest vulnerability and mitigation framework	Green Fund, Greece, Funding Programme: 'Natural Environment and Innovative Actions 2023'. Priority Axis 3: 'Research and Implementation'.	Department of Environment, University of the Aegean	2023-...	Principal Investigator
Center for Sustainable Circular Bioeconomy and Energy	Operational Programme "Competitiveness, Entrepreneurship and Innovation" (NSRF 2014–2020) and co-financed by Greece and the European Union.	Department of Environment, University of the Aegean	2021-2023	Leader of the BIOMass workpackage
Carbon fluxes across a post-fire chronosequence in <i>Pinus brutia</i> Ten forests	Greece and the European Union (European Social Fund—ESF)	Department of Environment, University of the Aegean	2020-2021	Principal Investigator
GEM-Traits, Global Ecosystem Monitoring	European Research Council (ERC)	Environmental Change Institute, School of Geography & the Environment, University of Oxford		Postdoc researcher
Mediterranean Forests in Transition	General Secretariat for Research and Technology, Greece	National & Kapodistrian University of Athens	2012-2015	Principal Investigator
Forest Fires under Climate, Social and Economic Changes in Europe, the	European Commission FP7	National & Kapodistrian University of Athens	2011-2012	Postdoc researcher

Mediterranean and other Fire-affected Areas of the World				
INTRABASIS: Development of an Individual Trait-Based Simulator for the Amazonian Forest Dynamics	European Commission FP7, Marie Curie Intra-European Research Fellowships (IEF)	School of Geography, University of Leeds	2009-2011	Principal Investigator
Quantifying and Understanding the Earth System QUEST	National Environment Research Council, UK	School of Geography, University of Leeds	2007-2009	Postdoc researcher
BIOBUS Biodiversity Resources for Innovative Business Development	European Commission FP6	Department of Environment University of the Aegean	2006-2007	Postdoc researcher