

Kyriaki Kitikidou

Full Professor of Forest Biometrics

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Profile

Forest biometrics specialist with more than 25 years of university teaching experience. My work focuses on forest measurement, sampling and statistical modelling, with particular attention to the quality of data and the interpretation of scientific evidence. Published contributions include an Excel workbook for 17 biodiversity indices and biostatistical work in the international Sarcoma-GPA study of 251 patients.

Research and analytical expertise

- Forest measurement: forest inventory, tree growth, biomass and carbon estimation, and biodiversity assessment.
- Quantitative methods: sampling design, regression, experimental design, model assessment and interpretation of uncertainty.
- Scientific evaluation: critical reading of research, assessment of methods and evidence, and clear written feedback.

Academic experience

Democritus University of Thrace

Full Professor, 2022-present | Associate Professor, 2018-2022

Assistant Professor, 2013-2018 | Lecturer, 2007-2013

Earlier contract teaching, 2000-2007

Teach forest biometrics, biostatistics, sampling and experimental design at undergraduate and postgraduate levels. Supervise and examine student research, including doctoral work. Delivered professional training in statistical inference with SPSS.

Scientific review

Peer reviewer for journals including Ecological Modelling, Journal of Environmental Management and Computer Methods and Programs in Biomedicine. Recipient of an Outstanding Reviewer Award from Journal of Environmental Management. Evaluation experience also includes research proposals and Erasmus/Erasmus+ programmes.

Tools and languages

Excel and SPSS for statistical analysis and reproducible calculation tools. Advanced use of PowerPoint and Google Docs, Sheets and Slides for university teaching, learning materials and scientific communication.

English: advanced proficiency; extensive experience in scientific writing, publication and peer review.

French: advanced proficiency. **Greek:** native.

Education

Aristotle University of Thessaloniki, Forestry and Natural Environment.

PhD (2002); master's degree (2000); five-year degree (1998).

Selected research contributions

Forest governance and evidence requirements

Corresponding author. Co-developed the review's framework for assessing evidence on wildfire risk, forest restoration and carbon accounting, with emphasis on field verification and the interpretation of environmental claims.

Milios, E., & Kitikidou, K. (2026). Forests as Living Public Infrastructure: Evidence Requirements for Mediterranean Wildfire Risk Governance, Restoration and Carbon Accounting. *Sci*, 8(8), 192. doi:10.3390/sci8080192

Reproducible tree measurement and decision support

Corresponding author. Co-developed and validated a workflow connecting 3D tree reconstruction, field measurements and transparent decision rules. Shared responsibility for methodology, formal analysis and data curation.

Milios, E., & Kitikidou, K. (2026). A Reproducible Methodology for 3D Tree-Structure Mensuration and Risk-Oriented Decision Support: Integrating SfM-MVS, Field Referencing, and Rule-Based TRAQ/ALARP Logic. *Forests*, 17(4), 431. doi:10.3390/f17040431

Biodiversity indices and quantitative interpretation

First and corresponding author. Developed the published Excel workbook for calculating 17 biodiversity indices. Responsible for software and data curation, with shared contributions to methodology, validation and writing.

Kitikidou, K., Milios, E., Stampoulidis, A., Pipinis, E., & Radoglou, K. (2024). Using Biodiversity Indices Effectively: Considerations for Forest Management. *Ecologies*, 5(1), 42-51. doi:10.3390/ecologies5010003

Published Excel workbook: supplementary material

Biostatistical collaboration in clinical research

Contributed to study design, statistical analysis and interpretation in the international, multicentre Sarcoma-GPA study of 251 patients. Applied biostatistical expertise to the development of a disease-specific prognostic index.

Patrikidou, A., Chaigneau, L., Isambert, N., Kitikidou, K., et al. (2020). Development of a disease-specific graded prognostic assessment index for the management of sarcoma patients with brain metastases (Sarcoma-GPA). *BMC Cancer*, 20, 117. doi:10.1186/s12885-020-6548-6

Further publications and research profiles

ORCID | Scopus author profile

Books and teaching resources

Forest Mensuration

Greek translation of the textbook by Anthonie van Laar and Alparslan Akça, bringing established forest-measurement methods into Greek university teaching. Hellenic Academic Libraries Link, 2015. 369 pp. ISBN 978-960-603-474-9. Kallipos repository

Applied Statistics Using SPSS

Authored textbook connecting statistical methods with practical data analysis in SPSS. Published in Greek by Tziola, 2005. 288 pp. ISBN 960-418-073-8. The title is given here in English translation.

Research project participation

Research-team member in eight projects covering forest restoration, inventory, carbon assessment and sustainable management. Years below refer to my participation.

RECLOAK

2025-2030. Restoration and improved conservation of holm oak forests threatened by decline.

Krasi monumental plane trees

2025. Condition assessment and management recommendations for the monumental plane tree of Krasi and two neighbouring plane trees.

PINEOPTIM

2024-2025. Management of Mediterranean pine forests to optimise carbon and water balances under climate change.

FOROAKS

2023-2024. Dynamic inventory of CO₂ sequestration in deciduous oak forests and evergreen broadleaf woodlands, supporting improved national greenhouse-gas inventories for forestry.

National Forest Inventory and Monitoring System

2022-2023. The SAP project: technical coordination of the establishment and initial operation of Greece's forest and woodland inventory and monitoring system.

COFORMIT

2018-2021. Contribution of planted areas at the Western Macedonia Lignite Centre to environmental protection and climate-change mitigation.

FORESMIT

2015-2019. Recovery of degraded coniferous forests for environmental sustainability restoration and climate-change mitigation.

SUMFOREST

2014-2017. Tools and challenges in sustainable, multifunctional forestry, strengthening research coordination for strategic decision-making.