

MR GIORGOS XANTHOPOULOS - CV

PERSONAL INFORMATION

NAME: **GIORGOS**

LAST NAME: **XANTHOPOULOS**

DATE OF BIRTH: **26 February 1995**

PLACE OF BIRTH: **Thessaloniki, Greece**

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CURRENT POSITION

Since February 26, 2025: Forester-Environmentalist

Forest Research Institute, Hellenic Agricultural Organization-DIMITRA

City: Thessaloniki

Country: Greece

"Synergetic beneficial microbial consortia for improving plant productivity and adaptation in challenging environments- EICONA"

Water stress and/or salinity stress using legume species inoculated with selected microbial symbionts, under controlled conditions and performing measurements of photosynthesis, chlorophyll fluorescence, leaf chlorophyll content, and leaf water potential.

Since May 01, 2024: Forester-Environmentalist

Forest Research Institute, Hellenic Agricultural Organization-DIMITRA

City: Thessaloniki

Country: Greece

"Management of Mediterranean Pine forests for Optimizing carbon and water balance under climate change - PineOptim"

Contribution to model development using Eddy Covariance technique, with participation in Work Package 3 (*Integration of field measurements with process-based models, Model Development, Validation and Application*). Statistical analysis of the data with participation in Work Package 4 (*Comparative evaluation of alternative management scenarios for C and H₂O optimization using statistical analysis and simulations*).

STUDIES

1. 2014 - 2019: Democritus University of Thrace, Dept. of Forestry and Management of Environment and Natural Resources, Greece (Grade: Excellent).
2. 2020 –2022: Msc studies at Conservation and Restoration of Terrestrial Natural Ecosystems, Dept. of Forestry and Management of Environment and Natural Resources, School of Agricultural and Forestry Sciences, Democritus University of Thrace (Grade: Excellent).
3. 2022- current PhD student, Plant Physiology, Department of Forestry and Management of Environment and Natural Resources, Democritus University of Thrace.

RESEARCH INTERESTS

- Stress and adaptation of plants to environmental changes
- Ecophysiological factors: photosynthesis, respiration, transpiration, fluorescence, water potential, carbon
- Calculation of pH, organic matter, moisture, density, nitrogen, soil cation exchange capacity
- Nitrogen fixation by plants and inorganic nutrition
- Plant responses to different light wavelength

FOREIGN LANGUAGES

1. **English:** *fluent*

PUBLICATIONS IN INTERNATIONAL PEER-REVIEWED JOURNALS

1. **Xanthopoulos G.**, Radoglou K, Derrien D, Spyroglou G, Angeli N, Tsioni G, Fotelli M*. 2023. Carbon sequestration and soil nitrogen enrichment in *Robinia pseudoacacia* L. post-mining restoration plantations. *Frontiers in Forests and Global Change*, Volume 6, <https://doi.org/10.3389/ffgc.2023.1190026>

ANNOUNCEMENTS IN INTERNATIONAL CONFERENCES

1. **Xanthopoulos G., Radoglou K., Spyroglou S., Fotelli M.N. 2021.** Biomass accumulation in *Robinia pseudoacacia* restoration plantations. In Abstracts Book of the SER Europe "12th SERE Conference", Online, September 7-10, 2021. pp 207. (Presentation).
2. **Fotelli M., Xanthopoulos G., Spyroglou G., Tziaferidis S.R., Derrien D., Radoglou K. 2022.** Carbon sequestration in different pools of black locust restoration plantations. Final event of COFORMIT Project "Carbon sequestration from tree plantations of nature restoration projects". 17-18 February 2022, online conference. (Presentation)
3. **Spyroglou G., Fotelli M., Radoglou K., Tziaferidis S.R., Xanthopoulos G., Tyraidis K., Manolopoulos D. 2022.** Estimation of above and below ground biomass distribution using allometric equations in restored open cast coal mines. Final event of COFORMIT Project "Carbon sequestration from tree plantations of nature restoration projects". 17-18 February 2022, online conference. (Presentation).
4. **Fotelli M., Jaber Y., Tziaferidis S.-R., Xanthopoulos G., Radoglou K. 2022.** The role of nodules on black locust carbon balance – preliminary results. Final event of COFORMIT Project "Carbon sequestration from tree plantations of nature restoration projects". 17-18 February 2022, online conference. (Presentation).
5. **Xanthopoulos G., Radoglou K., Spyroglou G., Derrien D., Angeli N., Fotelli M.N. 2022.** Carbon sequestration in litterfall, forest floor, roots and soil in *Robinia pseudoacacia* restoration plantations. EGU General Assembly 2022, 23-27 May 2022, EGU22-10109, <https://doi.org/10.5194/egusphere-egu22-10109>. (Presentation)
6. **Radoglou K., Fotelli M., Spyroglou G., Xanthopoulos G., Kitikidou K., Orfanoudakis M., Milios E., Papadopoulos C., Barbas Tr., Manolopoulos D., Tziaferidis S. R. 2022.** C storage at planted fields at a lignite center for climate change mitigation. PRE (Protection and Restoration of the Environment) - XVI conference, Kalamata, Greece, 5-8 July 2022. pp. 19 (Poster)
7. **Xanthopoulos G., Radoglou K., Spyroglou G., Pappas C., Fotelli M.N. 2024.** Carbon stocks and fluxes of a natural Mediterranean Aleppo pine ecosystem, XXVI IUFRO Stockholm, Sweden, 23-29 June 2024 (Poster).

8. **Markos N., Xanthopoulos G., Pappas C., Spyroglou G., Fotelli M.N. 2024.** Carbon fluxes of a natural Mediterranean Aleppo pine ecosystem using eddy covariance and soil respiration measurements, XXVI IUFRO Stockholm, Sweden, 23-29 June 2024 (Poster).

EXPERIENCE IN RESEARCH PROJECTS

1. 2019 – 2022: National and EU funded Project “COFORMIT – Contribution of the forest plantations of the West Macedonia Lignite Center to protection of the environment and to climate change mitigation”, funded by DUTH.
2. 2020 – 2024: French project “CARTON - CARbon functional Traits and their Optimisation”, funded by ANR (Agence Nationale de la Recherche).
3. 2022-2024: Research project “ECOCARBON – Assessment of the carbon footprint of Sani forest ecosystem”, funded by Sani S.A.
4. 2023-2024: Research project “FOROAKS- Dynamic inventory of CO sequestration in deciduous oak forests and woodlands evergreen broadleaf forests, contribution to the improvement of the national gas inventory greenhouse gas inventory in forestry” funded by Green Fund.
5. 2024-2025: Research project “Improvement of wet rangelands for the development of buffalo farming, environmental protection and adaptation to climate change- NEROVOUVALOS” funded by Special Implementing Agency for Rural Development 2014-2020.
6. 2024- current: Research project “Management of Mediterranean Pine forests for Optimizing carbon and water balance under climate change – PineOptim”, funded by Hellenic Foundation for Research and Innovation- H.F.R.I.

OTHER SCIENTIFIC TASKS / PROFILE

- **Pre-graduate courses teaching (2022 -2023):** Plant physiology (Democritus University of Thrace, Greece)
- **Member of COST Action CA21138 - Joint effects of CLimate Extremes and Atmospheric depositioN on European FORESTs (CLEANFOREST)**
- **International Doctoral Course "Stable Isotopes in Forest Ecosystem Research" , INRAE campus, Champenoux, France (12/09/2021-16/09/2021)**