
Personal Information

Gavriil Spyroglou

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🌐 <https://www.fri.gr/index.php/en/staff/researchers/dr-nat-techn-spyroglou-gavriil>

Sex Male | Date of birth 20 July 1965 | Nationality Greek

Current position

Research Director at the Forest Research Institute of the HELLENIC AGRICULTURAL ORGANIZATION - DIMITRA

Work Experience

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| 2023-Today | Appointed as Research Director in Forest ecosystem management – growth and yield at Hellenic Agricultural Organization DIMITRA, Forest Research Institute |
| 2019-2023 | Appointed as Senior Researcher in Forest ecosystem management – growth and yield at Hellenic Agricultural Organization DIMITRA, Forest Research Institute |
| 2015-2019 | Appointed as Associate Researcher in Forest ecosystem management – growth and yield at Hellenic Agricultural Organization DIMITRA, Forest Research Institute |
| 1990 - 2015 | As Forest engineer at Forest research Institute in the laboratory of silviculture |

Education

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| 2001-2004 | Doctoral thesis. Universität für Bodenkultur, Wien – Österreich Title of Thesis: “A growth model for <i>Quercus frainetto</i> in Greece” |
| 1985-1990 | Bachelor of Forestry and Natural Environment Department of Forestry and Natural Environment, Aristotle University of Thessaloniki, Greece |

Languages

Greek (mother tongue); English (proficient user)

Research Projects

Since 1993, I have worked at Forest research Institute in the laboratory of silviculture as forest engineer and participated in many research projects in the field of stand tending, seed quality assessment, growth, and yield, and stand response to thinning of long-term experimental plots. After my appointment at a research position I have undertaken as PI and participated as member of research team in 21 research projects funded by European (LIFE, FP7) and National sources. During the last 5 years as scientific responsible of at least 9 projects related with growth and yield, biomass estimation, regeneration, use of biometrical and ecophysiological measurements for calibrating tree growth and productivity models, among them:

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| 2019-2025 | Tree biometrical and ecophysiological measurements in permanent experimental plots for calibrating tree growth and productivity models (Forest Models)” Funded by Greek funds. |
| 2019-2021 | Contribution of the tree plantations of the Western Macedonia coal mines to environmental protection and climate change mitigation (COFORMIT)”. Funded by EU and Greece. |
| 2022-2024 | Dynamic inventory of absorption of CO2 in deciduous oak forest and in forest area of evergreen broadleaves, contribution in improving of National inventory of Greenhouse gases in Forestry. Funded by EU and Greece. |
| 2023-2027 | Application of silvicultural prescriptions for the asexual, sexual natural regeneration, enhancement of biodiversity and protection of the old grown sweet chestnut forest of kastanologgos, Karystos, Euboia. Funded by EU. |

- 2025-2026 Application of silvicultural prescriptions and artificial plantings for the regeneration, enhancement of biodiversity and protection of the on dunes overgrown Aleppo pine forest of Sani, Kassandra, Chalkidiki, Greece. Funded by EU.
- 2022-2027 Supporting silvicultural improvements and natural regeneration work in Pieria Mt. forest, Region of Central Macedonia.
- 2022-2027 Supporting silvicultural improvements and natural regeneration work in Thessaloniki urban forest, Region of Central Macedonia. Funded by EU.

Scientific Publications in SCI Journals (last 5 years)

- Zianis D., **Spyroglou G.**, Tiakas E. and Radoglou K. 2016. Bayesian and classical models to predict aboveground tree biomass allometry. *Forest Science* 62(3): 247-259. DOI: <http://doi.org/10.5849/forsci.15-045>
- Nicolescu V-N., **Spyroglou G.**, Dubravac T., Tijardovic M., Hernea C., Krstic M., Carvalho J., Matsiakh I., Özel H.B., Trajkov P. 2017. Coppice conversion, a difficult and long-lasting process in Europe. In IUFRO (ed) IUFRO Session 82 a/b 125th Anniversary Congress, 18-22 Sept. 2017, Freiburg, Germany
- Spyroglou G.**, Mariangela Fotelli, Nikos Nanos, Kalliopi Radoglou. 2020. Aboveground live and dead biomass distribution using allometric equation in the restored mines of the Western Macedonia Lignite Center. DOI: <https://doi.org/10.3390/IECF2020-08076>
- Spyroglou G.**; Fotelli, M.; Nanos, N.; Radoglou, K. 2021. Assessing Black Locust Biomass Accumulation in Restoration Plantations. *Forests*, 12, 1477. DOI: <https://doi.org/10.3390/f12111477>
- Fyllas, N.M., Koufaki, T., Sazeides, C.I., **Spyroglou, G.**, Theodorou, K. 2022. Potential Impacts of Climate Change on the Habitat Suitability of the Dominant Tree Species in Greece. *Plants*, 11, 1616. <https://doi.org/10.3390/>
- Tziaferidis SR, **Spyroglou G.**, Fotelli MN, Radoglou K (2022). Allometric models for the estimation of foliage area and biomass from stem metrics in black locust. *iForest* 15: 281-288. - doi: <https://doi.org/10.3832/ifer3939-015>
- Doukalianou F, **Spyroglou G.**, Orfanoudakis M, Radoglou K, Stefanou S, Kitikidou K, Milios E, Lagomarsino A. Effects of Forest Thinning on Soil Litter Input Nutrients in Relation to Soil CO₂, CH₄, and N₂O Fluxes in Greece. *Atmosphere*. 2022; 13(3):376. <https://doi.org/10.3390/atmos13030376>
- Burrascano, S., et al. 2023. Where are we now with European forest multi-taxon biodiversity and where can we head to? *Biological Conservation* 284:110176.
- Wilms, F., Berendt, F., Bronisz, K. Bashutska, U. Fotelli, M. Radoglou, K. **Spyroglou G.*** 2024. Applying taper function models for black locust plantations in Greek post-mining areas. *Sci Rep* 14, 13557. <https://doi.org/10.1038/s41598-024-63048-1>

Books and book chapters

- Chatziphilippidis Gr. and **Spyroglou G.** 2005. The growth of *Quercus frainetto* in Greece. In: Hasenauer, H., (ed), *Growth models for forest management in Europe*. pp. 373-395. Springer Verlag. ISBN-13: 978-3-540-26098-1.
- Spyroglou G.**, Tiakas El., Chatziphilippidis Gr. and Kazana B. 2014. The design and use of forest decision support systems in Greece In Borges J., Nordström E.M., Garcia Gonzalo J., Hujala T. and Trasobares A., (eds) *Computer-based tools for supporting forest management. The experience and the expertise world-wide*. Dept of Forest Resource Management, Swedish University of Agricultural Sciences. Umeå. Sweden. 152-167. http://pub.epsilon.slu.se/11417/7/bor-ges_jg_et al_140825.pdf
- Mallinis G., Mitsopoulos I., Tsiaras P., Papachristou Th. and **Spyroglou G.** 2018. Thirty five countries reports on coppice forests in Europe, Greece. In A. Unrau, G. Becker, R. Spinelli, D. Lazdina, N. Magagnotti, V.N. Nicolescu, P. Buckley, D. Bartlett, P.D. Kofman (Eds.), *Coppice Forests in Europe* (pp.256-259). Freiburg i. Br., Germany: Albert Ludwig University of Freiburg. <https://www.eurocoppice.uni-freiburg.de/intern/coppiceineurope-volume/coppice-forests-in-eu-rope-2018-09-10-final-small.pdf>

Congress papers and abstracts

Participation in the publication of more than 70 congress papers and abstracts