

Dimitrios Gounaridis

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Education

Main Education

2013 - 2018 **Ph.D.** Department of Geography. University of the Aegean.

Thesis title: “**Multi-scale modelling of land cover/land use (LCLU) change with Geoinformatics and scenario-based simulations**”.

Supervisor: Assoc. Prof. S. Koukoulas.

2010 - 2012 **MSc** in Applied Geo-Informatics in Environmental and Risk Management. Department of Geography. University of the Aegean.

Dissertation title: “**Assessing fire severity and post-fire environmental recovery, employing methodologies of Geoinformatics**”.

Supervisor: Prof. K. Kalampokidis

2004 - 2009 **BSc** in Forestry and Management of the Natural Environment. Eastern Macedonia and Thrace Institute of Technology (EMaTTech).

Dissertation title: “**Riparian and wetland ecosystems in Greece, definition and characteristics**”.

Supervisor: Asst. Prof. G. Zaimes.

Additional Training Courses

2013 **Transitions in Landscape and Land Use.** VOLANTE and the University of the Aegean PhD Summer School. Mytilene, Greece.

2011 **GISLERS Summer School:** Bridging Geographic Information Science, Landscape Ecology and Remote Sensing for landscape analysis and landscape planning. Z_GIS Department of Geoinformatics, Salzburg, Austria

Work Experience

- **4/2018 – 5/2018 / research assistant:** Mapping and spatial analysis of tea plantations in NINGDE UNESCO Global Geopark, China using remote sensing techniques.
- **3/2017 – 8/2017 / fixed-term contract (private sector):** Geotechnical of Aegean. Integrated information system concerning single application 2017 for European Agricultural Fund for Rural Development (EAFRD). Assisting and consulting farmers of Lesvos on the progress of single payment application and crop/breeding declaration and cadastral registrations and updates.
- **10/2016 – 11/2016 / research assistant:** FP7 Sustainable Futures for Europe's Heritage in Cultural Landscapes: Tools for understanding, managing, and protecting landscape functions and values HERCULES, Code: 2542. Data management and participation in deliverable 1.4.
- **9/2016 – 10/2016 / research assistant:** FP7 Sustainable Futures for Europe's Heritage in Cultural Landscapes: Tools for understanding, managing, and protecting landscape functions and values HERCULES, Code: 2542. Data analysis and participation in scientific publications.
- **6/2015 – 11/2016 / research assistant:** FP7 – Sustainable Futures for Europe's Heritage in Cultural Landscapes: Tools for understanding, managing, and protecting landscape functions and values – HERCULES, Code: 2542. Participation in WP1: "Pan-European systematic review and meta-analysis" and in WP4: "Cultural landscapes typology and recent dynamics".
- **11/2015 – 12/2015 / research assistant:** FP7 Total costs of climate changes CLIMATECOST, Code: 2168. Mapping urban land cover (3 categories) of coastal Greece, using remote sensing techniques.
- **2/2015 – 10/2015 / research assistant:** Aegean Research Unit, Code: 2692. Creation of population density grid for Greece, employing spatial analysis methodologies».
- **5/2014 – 8/2014 / Teaching assistant:** Aegean Research Unit, fixed term contact. Teaching assistant in undergraduate (1 course) and graduate-masters level (2 courses).
- **8/2009 – 10/2009 / Internship assistant (private sector):** i) Bird Migration Study in Malta using Statistical Analysis. ii) ARTEMIS project, estimating the harvesting and abundance of fauna in Greece. Forest Techniques Office: Christoforidou G., Karampatzakis Th. and Logothetis G.
- **4/2009 – 7/2009 / Internship assistant:** Protection of Natural Terrestrial Ecosystems, Laboratory. Department of Forestry and Natural Environment Management. Kavala Institute of Technology.

Scholarships, Awards

Marie Skłodowska-Curie Actions Seal of Excellence, high-quality label awarded to project proposal (score received 87%)

Scholar of the Greek State Scholarships Foundation, PhD studies. 2013 – 2014

Scholar of the ERASMUS Life Long Learning Program. Summer school participation (2011)

Scholar of the Greek State Scholarships Foundation, MSc studies. 2010 – 2012. First place in written competition (courses: Forest Policy and Economics, Forest Biometrics, Forest Management)

Publications

Peer Reviewed Journals

Symeonakis, E., **Gounaridis, D.**, Petroulaki, K., Koukoulas, S. Spatial patterns analysis of land cover changes in Natura 2000 areas of Crete. (in preparation).

Kizos, T., **Gounaridis, D.**, Kavroudakis D., et al. Making sense of the landscape: Understanding landscape preferences with the use of PPGIS in a Mediterranean locality. (in preparation)

Zaimes, N.G., **Gounaridis, D.** Symeonakis, E. Effect of dam construction on vegetation dynamics and land cover change in Nestos delta (N. Greece). (in preparation)

Gounaridis, D., Chorianopoulos, I., Symeonakis, E. and Koukoulas, S. (2019). A multi-scale Random Forest/Cellular Automata modelling approach for mapping land use/cover changes in Attica (Greece), under divergent socioeconomic realities. *Science of the Total Environment* 646 320–335.

Gounaridis, D., Symeonakis, E., Chorianopoulos, I. and Koukoulas, S. (2018). Incorporating density in spatio-temporal land use/cover change patterns: the case of Attica, Greece. *Remote Sensing* 10(7), 1034.

Kizos, T., Verburg, P.H., Burgi, M., **Gounaridis, D.**, Plieninger, T., Bieling, C. and Balatsos, T. (2018). From concepts to practice: A portfolio of approaches on drivers of landscape change. *Ecology and Society* 23(1), 25-35.

Gounaridis, D., Chorianopoulos, I. and Koukoulas, S. (2018). Exploring prospective urban growth trends under different economic outlooks and land-use planning scenarios: The case of Athens. *Applied Geography* 90, 134-144.

Garcia-Martin, M., Fagerholm, N., Bieling, C., **Gounaridis, D.**, Kizos, T., Printsman, A., Müller, M., Lieskovský, J. and Plieninger, T. (2017). Participatory mapping of landscape values in a Pan-European perspective. *Landscape Ecology* 32(11), 2133–2150.

Dimitrakopoulos, P.G., Koukoulas, S., Galanidis, A., Delipetrou, P., **Gounaridis, D.**, Touloumi, K. and Arianoutsou, M. (2017). Factors shaping alien plant species richness spatial patterns across Natura 2000 Special Areas of Conservation of Greece. *Science of the Total Environment* 601–602, 461–468.

Zagaria, C., Schulp, C.J.E., Kizos, T., **Gounaridis, D.** and Verburg, P.H. (2017). Cultural landscapes and behavioral transformations: An agent-based model for the simulation and discussion of alternative landscape futures in East Lesvos, Greece. *Land Use Policy* 65, 26–44.

Gounaridis, D. and Koukoulas, S. (2016). Urban land cover thematic disaggregation, employing datasets from multiple sources and RandomForests modeling. *International Journal of Applied Earth Observation and Geoinformation* 51, 1–10.

Gounaridis, D., Apostolou A. and Koukoulas, S. (2016). Land Cover mapping of Greece: a semi-automated classification approach based on Landsat data and Random Forests. *Journal of Maps* 12(5), 1055-1062.

Gounaridis, D., Apostolou A., Riga M., Moustos P., Mpika K., Kontou D. and Koukoulas, S. (2016). Change detection of forests and semi-natural areas in Greece for the period 1990-2010. *Aegean Journal of Environmental Sciences* 2, 1-10.

Gounaridis, D., Zaimis, N.G. and Koukoulas, S. (2014). Quantifying spatio-temporal patterns of forest fragmentation in Hymettus Mountain, Greece. *Computers Environment and Urban Systems* 46, 35–44.

Iakovoglou, V., Zaimis, N.G. and **Gounaridis, D.** (2013). Riparian Areas in Urban Settings: Two Case Studies from Greece. *International Journal of Innovation and Sustainable Development* 7 (3), 271 – 288.

Gounaridis, D. and Zaimis, N.G. (2012). GIS-based Multicriteria Decision Analysis applied for Environmental Issues. The Greek Experience. *International Journal of Applied Environmental Sciences* 7 (3), 307 – 321.

Zaimis, N.G., **Gounaridis, D.**, Iakovoglou, V. and Emmanouloudis, D. (2011). Riparian Area Studies in Greece: A Literature Review. *Fresenius Environmental Bulletin* 20 (6a), 1470 – 1477.

Zaimis, N.G., **Gounaridis, D.** and Fotakis, D. (2011). Assessing riparian land-uses/vegetation cover along the Nestos River in Greece. *Fresenius Environmental Bulletin* 20 (12), 3217 – 3225.

Zaimis, N.G., Iakovoglou, V., Emmanouloudis, D. and **Gounaridis, D.** (2010). Riparian Areas of Greece: Their Definition and Characteristics. *Journal of Engineering Science and Technology Review* 3 (1), 176-183.

Book Chapters

Nitis T., Tsegas G., Moussiopoulos N., **Gounaridis D.** (2018) Assimilating Anthropogenic Heat Flux Estimated from Satellite Data in a Mesoscale Flow Model. In: Mensink C., Kallos G. (eds) Air Pollution Modeling and its Application XXV. ITM 2016. Springer Proceedings in Complexity. Springer.

Articles in Conference Proceedings

Nitis, T., Tsegas, G., Moussiopoulos, N., **Gounaridis, D.** and Bliziotis, D. Satellite data based approach for the estimation of anthropogenic heat flux over urban areas. Proceedings SPIE, 104441P. RSCy2017.

Zaimes, N.G., **Gounaridis, D.**, Iakovoglou, V. and Emmanouloudis, D. Assessing soil erosion risk for Rhodes Island, Greece with a GIS-based Multi-Criteria Decision Analysis. Proceedings: The 4th IASTED African Conference on Water Resource Management – Africa WRM. 3-5 September 2012. Gaborone, Botswana.

Iakovoglou, V., Zaimes, N.G. and **Gounaridis, D.** Managing healthy riparian areas in urban settings of Greece to improve living conditions. Proceedings: Protection and Restoration of the Environment XI. 3-6 July 2012. Thessaloniki, Greece.

Abstracts in Conference Proceedings

Nitis, T., Tsegas, G., Moussiopoulos, N., **Gounaridis, D.** and Bliziotis, D. Satellite data based approach for the estimation of anthropogenic heat flux over urban areas. 5th International Conference on Remote Sensing and Geoinformation of Environment 20-23 March 2017. Paphos, Cyprus.

Gounaridis, D., Apostolou, A., Riga, M., Moustos, P. and Koukoulas, S. 2014. Detecting changes in forest cover of Greece (1990-2010) utilizing Landsat imagery and semi-automatic trained Random Forests algorithm. Poster session: 7th National Congress of Ecology. 9-12 October. Mytilene, Greece.

Kalabokidis, K., Palaiologou, P. and **Gounaridis, D.** 2012. Analysis of post fire natural regeneration of a Mediterranean forest in the mountainous environment of Lesbos island. Abstract Proceedings: 6th National Congress of Ecology. 4-7 October. Athens, Greece.

Zaimes, N.G., Mallinis, G., **Gounaridis, D.**, Emmanouloudis, D., Iakovoglou, V. and Mitsopoulos, I. 2011. Mitigating land degradation in a Natura 2000 site by targeting reforestation areas with the use of Remote Sensing, GIS and Multi-Criteria Analysis. IUFRO Conference on Restoring Forests: Advances in Techniques and Theory. 27-29 September. Madrid, Spain.

Teaching

2016: Lifelong Learning. University of the Aegean

E-learning Postgraduate

Introduction to Geographic Information Systems (QGIS). 10 Teaching modules
(with D. Kavroudakis and G. Papapanos)

2014: Teaching Assistant, Department of Geography. University of the Aegean

Undergraduate

Applications of Geographic Information Systems (GIS) (with S. Koukoulas)

Postgraduate

Special issues in Geographic Information Systems (GIS) (with S. Koukoulas)

Guest lectures

Gounaridis, D. (2018). Exploring prospective urban growth trends under different economic outlooks and land-use planning scenarios: The case of Athens. Undergraduate level class - Geographic Information Systems (GIS) applications, Department of Geography, University of the Aegean.

Gounaridis, D. (2018). Land Cover mapping of Greece: a semi-automated classification approach based on Landsat data and Random Forests. Undergraduate level class – Introduction to Remote Sensing, Department of Geography, University of the Aegean.

Gounaridis, D. (2016). Land Cover mapping of Greece: a semi-automated classification approach based on Landsat data and Random Forests. Undergraduate level class – Introduction to Remote Sensing, Department of Geography, University of the Aegean.

Referee service

Reviewed for:

- Computers, Environment and Urban Systems
- International Journal of Applied Earth Observation and Geoinformation
- Land
- ISPRS International Journal of Geo-Information
- Remote Sensing (5x)
- Transactions in GIS

Skills

Languages: English, Greek (native)

Computer and OS: Proficient in Windows; Ubuntu/Linux

Software: R; GRASS GIS; QGIS; ArcGIS; Erdas Imagine; Fragstats; Dinamica EGO

Office Suites: (Microsoft, Open Office, Libre Office)