

Liodakis Stelios

Curriculum Vitae

- **Education:**

- 2008 BSc: Department of Geology, Aristotelian University of Thessaloniki, Greece
 - 2011 MSc: "Geography and Applied Geoinformatics", Department of Geography, Aegean University, Mytilene, Greece
 - 2017 PhD: "*Computationally efficient geostatistical simulation for uncertainty propagation in models with spatially distributed parameters*", Department of Geography, University of the Aegean, Mytilene, Greece.
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- **Professional employment:**

- **Period:** from 26/5/2008 to 28/8/2009
Country: Greece
Name of the Company - Service: Infoδην
Position in Company - Service: Company Employee
Responsibilities: Management and implementation of a large number of projects conducted by the company.
- **Period:** from 20/10/2010 until 20/01/2011
Country: Greece
Name of the Company - Service: Aegean University. Laboratory of Natural Disasters
Position in Company - Service: Associate of the Research Laboratory
Responsibilities: Supportive work for the project "VIRTUAL FIRE".
- **Period:** From 2002 until now
Country: Greece
Name of the Company - Service: MAKEDONIKI
Position in Company - Service: Company Collaborator
Responsibilities: Management and implementation of a large number of projects conducted by the company.
- **Period:** From 2013 until September 2015
Country: Greece
Name of the Company - Service: Aegean University. Laboratory of Spatial Statistics.
Position in Company - Service: Associate of the Research Laboratory
Responsibilities: Research and Administrative support for the project "Advances in Geostatistics for Environmental Characterization and Natural Resources Management", conducted under the scientific research program

“Aristeia I” of the Operational Program “Education and Lifelong Learning” (Actions Beneficiary: General Secretariat for Research and Technology), co-financed by the European Social Fund (ESF) and the Greek State.

- **Period:** From 2013 until 2016
Country: Greece
Name of the Company - Service: GEODATA BANK SA
Position in Company - Service: President and Chief Executive Officer
Responsibilities: Management of projects conducted by the company.
- **Period:** From January 2016 until November 2016
Country: Greece
Name of the Company - Service: UNHCR
Position in Company - Service: Senior data management assistant, Grade G5, Step 4, Chios.
Responsibilities: Information management and mapping.
- **Period:** From December 2016 until December 2017
Country: Greece
Name of the Company - Service: UNHCR
Position in Company - Service: Senior data management assistant, Grade G5, Step 5, Thessaloniki.
Responsibilities: Information management and mapping.
- **Period:** From June 2018 until now
Country: Greece
Name of the Company - Service: UNHCR
Position in Company - Service: Data management associate, Grade G6, Step 5, Thessaloniki.
Responsibilities: Information management and mapping.

- **Languages**

- **Greek:** Excellent (mother tongue)
- **English:** Excellent (Certificate Proficiency in English, University of Michigan)

- **Membership in professional organizations:**

Geotechnical Chamber of Greece, Association of Greek Geographers, International Association for Mathematical Geology (IAMG), European Geosciences association (EGU).

- **Publications:**

- ***In Peer - Reviewed Journals***

Liodakis S.C., Kyriakidis, P. and Gaganis, P. (2015): Accounting for Model Sensitivity in Controlled (Log)Gaussian Geostatistical Simulation. *Spatial Statistics*. Elsevier, 14(C), 224-239. DOI:10.1016/j.spasta.2015.05.007. [Impact factor \(1.176\)](#)

Liodakis S.C., Kyriakidis, P. and Gaganis, P. (2015): Efficient Uncertainty Analysis in an Anisotropic Three Dimensional Hydrogeological Model of Flow and Transport. *Non Linear Studies / Mathematics in Engineering, Science and Aerospace*. Cambridge Scientific Publishers, 6(4), 657 - 673

Liodakis S.C., Kyriakidis, P. and Gaganis, P. (2018): Conditional Latin Hypercube Simulation of (Log)Gaussian Random Fields. *Mathematical Geosciences*. Springer. DOI 10.1007/s11004-017-9715-9, [Impact factor \(2.022\)](#)

- ***In Peer - Reviewed Conference Proceedings***

Zargli, E., **Liodakis, S.**, Kyriakidis, P. and Savvaidis, A. (2013). Classification of Topography using DEM data and its correlation with the Geology of Greece. *In Proceedings of First International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2013)*, edited by: Diofantos G. Hadjimitsis, Kyriacos Themistocleous, Silas Michaelides, George Papadavid, Proc. of SPIE Vol. 8795, doi: 10.1117/12.2028801, Paphos, Cyprus, April 2013.

Liodakis, S.C., Kyriakidis, P. and Gaganis, P. (2015): Efficient Uncertainty Analysis in a Three Dimensional Hydrogeological Model of Flow and Transport, *In Proceedings of 14th International Conference on Environmental Science and Technology CEST2015*, 3-5 September 2015, Rhodes, Greece

Liodakis, S.C., Kyriakidis, P. and Gaganis, P. (2015): Efficient uncertainty propagation of lognormal hydraulic conductivity in a three dimensional hydrogeological model of flow and transport on very large regular grids, *In Proceedings of The 17th annual conference of the International Association for Mathematical Geosciences*, September 5-13, 2015, Freiberg (Saxony) Germany

Liodakis, S.C., Kyriakidis, P. and Gaganis, P. (2018): Efficient Geostatistical Simulation for Spatial Uncertainty Propagation, *In Proceedings of The 21st Conference on Geo-information science (AGILE)*, June 12-15, 2018, Lund, Sweden

- ***In Peer - Reviewed Conference Abstracts***

Kyriakidis, P. and **Liodakis, S.C.** (2012): Latin Hypercube Sampling of Random Field Models on Very Large Regular Grids, *9th Conference on Geostatistics for Environmental Applications (geoENV2012)*, September 9 – 12, Valencia, Spain.

Liodakis, S.C., Kyriakidis, P. and Gaganis, P. (2014): Likelihood-Representative Sampling From (Log)Normal Random Field Models, *10th Conference on Geostatistics for Environmental Applications (geoENV2014)*, July 7 - 11, Paris, France.

Liodakis, S.C., Kyriakidis, P. and Gaganis, P. (2014): Latin hypercube simulation of hydraulic conductivity fields for efficient parameter uncertainty assessment in flow and transport problems, *10th International Congress of the Hellenic Geographical Society*, October 22 – 24, Thessaloniki, Greece

Liodakis, S.C., Kyriakidis, P. and Gaganis, P. (2015): Geostatistical Sampling Methods for Efficient Uncertainty Analysis in Flow and Transport Problems, *European Geosciences Union General Assembly 2015*, Vienna, Austria, 12 – 17 April 2015

Kyriakidis, P., **Liodakis, S.C.**, and Gaganis, P. (2016): Conditional Latin Hypercube Simulation on Large Grids, *11th Conference on Geostatistics for Environmental Applications (geoENV2014)*, July 6 - 8, Lisbon, Portugal.

Liodakis, S.C., Kyriakidis, P. and Gaganis, P. (2016): Conditional Latin hypercube simulation on 3D large grids incorporating uncertainty in model parameters, *10th International Geostatistical Congress (GEOSTATS 2016)*, September 5 - 9, Valencia, Spain.

- ***In Conference Abstracts***

Liodakis, S.C., Kyriakidis, P.C., and Gaganis, P. (2015): Efficient uncertainty assessment methods in spatially distributed hydrogeological models of flow and transport, *Meeting at the Technical University of Crete*, September, 2015

- ***Research Studies***

Cartographic Research Implementation for “Cartographical Baseline SocioEconomic Survey Study for TransAdriatic Pipeline”, Makedoniki MTC

- ***Thesis***

Master thesis titled “*The contribution of Geostatistics in assessing probability and spread of fires: The case of West Attica*”

PhD thesis titled “*Computationally efficient geostatistical simulation for uncertainty propagation in models with spatially distributed parameters*”

- ***Honors, Distinction, Awards:***

- “Mathematical Geosciences” Journal student award (2015) for the project “Advances in Geostatistics for Environmental Characterization and Natural Resources Management”, 2500\$.
 - Scholarship for receiving the highest average score at all of the courses during the first semester of the Master Program "Geography and Applied Geoinformatics", 600€
 - Distinction in a Wikimedia Commons competition, in Section Non-Photographic Media. The image uploaded has been assessed using the Quality image guidelines and is considered a Quality image
<https://commons.wikimedia.org/wiki/File:PollutantConcentration.png>.
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- **Seminars:**

- Theme: "Geographical Information Systems (ArcInfo - ArcView - ArcGIS Server)" Crowne Plaza Hotel, Athens November 2009 (Certificate of participation)
 - Erdas 2011, ERDAS Photogrammetry Suite 2011, St. Analyst for Imagine ver.2011 Training Course - Thessaloniki 8, 9, 10 March 2011 (Certificate of participation)
 - Theme: "Natural disasters and environmental impacts" Aegean University, April 2011 (Certificate of participation)
 - Theme: "Bridging GIS, Landscape Ecology and Remote Sensing", GISLERS Summer School 2010, Universitat Salzburg (Certificate of participation)
 - Geo-Informatics (GI_Forum) Conference workshop. Salzburg University, Salzburg, Austria. 2010 July 6 – 9 (Certificate of participation)
 - Introduction to geostatistics with RGeostats (2 days). Paris, France, 2014 July 7 – 8. (Certificate of participation)
 - Multivariate Geostatistics for compositional data (2 days). Freiberg, Germany, 2015 September 11-12, (Certificate of participation)
 - Big Data Analysis in Earth Sciences 2015 (2 days). Rhodes, Greece, 31 August – 4 September, (Certificate of participation)
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- **Teaching experience:**

- **September 2013 – January 2014.** Spatial Statistics (lab sessions). 2 hours weekly in Geography Department of the Aegean University. Supervisor Phaedon Kyriakidis
- **September 2013 – January 2014.** Spatial Analysis (MSc course) (lab sessions). 2 hours weekly in “Geography and Applied Geoinformatics” Master course in Geography Department of the Aegean University. Supervisor Phaedon Kyriakidis

- **September 2014 – January 2015.** Spatial Analysis (MSc course) (lab sessions). 2 hours weekly in “Geography and Applied Geoinformatics” Master course in Geography Department of the Aegean University. Supervisor Phaedon Kyriakidis
 - **January 2015 – June 2015.** Multivariate Analysis (lab sessions). 2 hours weekly. Supervisor Phaedon Kyriakidis
 - **May 2016.** “Geostatistics – Reservoir estimation in oil industry research”. Course in “Hydrocarbon Exploration and Exploitation” Master in Geology department of Aristotle University. Supervisor Phaedon Kyriakidis
 - **December 2016.** “Spatial Analysis and Geostatistics”. Course in Faculty of Engineering and Technology, Cyprus University of Technology, Cyprus
 - **May 2017.** “Geostatistics – Reservoir estimation in oil industry research”. Course in “Hydrocarbon Exploration and Exploitation” Master in Geology department of Aristotle University. Supervisor Phaedon Kyriakidis
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- ***Training experience:***

As part of the work conducted for UNHCR:

Effectively planned and organized mapping exercises of refugee population. Creation managing and maintenance of the population database which was used by the Asylum Service and EASO for planning purposes (schedule of appointments, etc.). Maintained regular communication with the authorities. Development and maintenance of an online web GIS application monitoring boat arrivals, which could be replicated in the entire country. Collection of GIS data, various other GIS Web Applications development and Static Map creation. Preparation of reports and projection of information, preparation of tables and drafting routine correspondence and reports. Compilation of data and interpretation of statistics for various reports. Production of various reports, such as daily snapshots, which have been regularly shared with partners and stakeholders. Preparation of info documents for briefing kits like sites profiles, etc. when needed. Development of forms for data collection and analysis. Development of various coordination tools. Interpretation of routine information and translation of routine documents. Presentations and trainings for the Asylum Service and EASO staff on data management, and on partners on Activity Info platform. Accuracy in the implementation of any function and task. High quality work and provision of support to the team and supervisor whenever requested. Implementation of various interagency tools to unify all the efforts of stakeholders in Northern Greece. Capacity building of relevant stakeholders for effective use of data (creation and maintenance of Urban Service Mapping and Urban Accommodation platform). Act as the link between Urban Service Mapping and Refugee Info website and application in coordination with IRC. Collect information through Urban Service Mapping platform. Production of an Urban Services Mapping pamphlet in six languages and dissemination to refugees in Northern Greece. Train UNHCR staff on proGres. Assist UNHCR colleagues in maintaining databases, excel lists, as needed. Supervising of proGresV4 verification exercises and additional ProgresV4 capacity building for the Thessaloniki verification team. Organize and lead registration exercises in proGres of all persons of concern hosted under UNHCR funding in Northern Greece. Maintain/update proGres database and extract the necessary information for certification

exercises serving cash assistance needs. Collect GIS data, update site maps and maps for Northern Greece sites and urban accommodation. Maintain updated demographics for all sites. Create UNHCR accommodation population profile dashboards. Create and maintain the interagent platform for Urban Service Mapping (online tools included). Create Tracking tools for the UNHCR Accommodation team.

As part of the research conducted for Aegean University: Research conducted for uncertainty in spatiotemporal distribution of geographical variables, and efficient propagation of uncertainty in the spatiotemporal distribution of environmental model parameters to model predictions. Application of the above methodologies of spatiotemporal data analysis and modelling to Geographic Information Science, as well as Earth, Environmental Sciences

Teaching and providing assistance for bachelor and master courses at the University of the Aegean.

Field trips for forest data collection (fuel type, tree height, etc) for research program "Virtual Fire" which deals with fire prevention.

Geological field trips conducted as part of the training at the Geology Department of the Aristotle University.

As part of the work conducted for Private Sector: Implementation of many different disciplines studies as part of the cooperation with two private companies. Briefly: (i) Consultancy support and Decision making strategies development, (ii) Studies for the Development of the Legal and Technical Property Rights, Surveying, Cadastral, Urban planning study, (iii) Establishment of National Cadastre, (iv) Topographic Survey Development, (v) Integrated Early Warning and Fire Protection Management Systems, (vi) Geographic Information Systems (vii) Developing Information Systems for the management, protection and promotion of mountainous areas.

- **Present Position:**

Snr. Data Management Assistant, UNHCR, Thessaloniki.

Office collaborator of the company named "PANAGIOTIS KARAMOSCHOS AND PARTNERS LP - MAKEDONIKI COMPANY OF TECHNICAL RESEARCH LP".

Office collaborator of the company named "INFODIM".

- **Years of professional experience:** 15 years

- **Main Qualifications:**

Using computer programs and operating systems, Programming Languages (Visual basic), Scripting Languages (MATLAB, R), Statistical analysis (SPSS), Systems of Applied Geoinformatics (ArcGis, Quantum, Grass), Design (AutoCad), Geodatabases

creation and maintenance, Natural Disaster Simulation Systems, Remote Sensing Systems, Hydrogeological models of Flow and Transport (Modflow, MT3D)
Accomplishment of any kind of geological and cartographical essay.
Administrative, management capabilities and crucial decision making for both scientific research (Aristeia Research Program) and private sector market needs.

- **Personal interests and activities**

Travelling, Reading, Outdoor activities.