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Phaedon C. Kyriakidis

Curriculum Vitae

Last update: January 2019

Education

1999 • Ph.D.: Department of Geological & Environmental Sciences, Stanford University, U.S.A. Specialization: Geostatistics in the Earth Sciences. Thesis advisor: Prof. André G. Journel.

1994 • B.Sc. (Ptychion): Department of Geology, Aristotelian University of Thessaloniki, Greece.

Professional Appointments

2017- • Dean, Faculty of Engineering and Technology, Cyprus University of Technology, Cyprus

2016- • (co)Director, MSc Program in *Geoinformatics and Geospatial Technologies*

2016-17 • Chair, Dept. of Civil Engineering and Geomatics, Faculty of Engineering and Technology, Cyprus University of Technology, Cyprus

2016- • Adjunct Professor, Dept. of Geography, San Diego State University, U.S.A.

2015- • Professor, Dept. of Civil Engineering and Geomatics, Faculty of Engineering and Technology, Cyprus University of Technology, Cyprus

2015- • Adjunct Professor, Dept. of Geography, University of California Santa Barbara, U.S.A.

2012-14 • Graduate Advisor (Director of Graduate Studies), Dept. of Geography, University of California Santa Barbara, U.S.A.

2012-14 • Vice Chair, Dept. of Geography, University of California Santa Barbara, U.S.A.

2012-15 • Professor, Dept. of Geography, University of California Santa Barbara, U.S.A.

2010-12 • Director of Graduate Studies Program in: *Geography and Applied Geo-Informatics*, Dept. of Geography, University of the Aegean, Greece.

2010-15 • Professor of Spatial Analysis, Dept. of Geography, University of the Aegean, Greece.

2009-10 • Instructor on short-term contract at the Professorial level (presidential decree $407/1982$), Dept. of Geography, University of the Aegean, Greece.

2008-09 • Graduate Advisor (Director of Graduate Studies), Dept. of Geography, University of California Santa Barbara, U.S.A.

2008-09 • Vice Chair, Dept. of Geography, University of California Santa Barbara, U.S.A.

2005-12 • Associate Professor, Dept. of Geography, University of California Santa Barbara, U.S.A. – on leave-of-absence (without salary) from September 2009 to December 2012.

2001-13 • Faculty Staff, Earth Sciences Division, Berkeley National Laboratory, U.S.A.

2001-05 • Assistant Professor, Dept. of Geography, University of California Santa Barbara, U.S.A.

Professional Appointments

1999-00 • Post-doctoral Fellow, Earth Sciences Division, Berkeley National Laboratory, U.S.A.

1994-99 • Graduate Research Assistant, Dept. of Geological & Environmental Sciences, Stanford University, U.S.A.

1997 • Visiting Graduate Research Assistant (June-August), National Center for Geographic Information and Analysis (NCGIA), University of California Santa Barbara, U.S.A.

1996 • Visiting Graduate Research Assistant (June-August), Earth and Environmental Sciences Division GeoAnalysis (EES-5) Group, Los Alamos National Laboratory, U.S.A.

Honors, Distinctions & Awards

2017 • Best paper award: "Beyond pairs: Generalizing the geo-dipole for quantifying spatial patterns in geographic fields", co-authored by Rui Zhu, Phaedon **Kyriakidis**, and Krzysztof Janowicz, and presented at *AGILE 2017: 20^{th} Conference on Geoinformation Science*, Annual Conference of the Association of Geographic Information Laboratories in Europe (AGILE), on May 2017, in Wageningen, The Netherlands.

2015 • Best poster award: "Delineating water quality regions from remotely sensed data using textural information" (co-authored with Vasios and Kitsiou), and presented at the *Third International Conference on Remote Sensing and Geoinformation of Environment (RSCy 2015)*, on March 16-19 2015, in Paphos, Cyprus.

2014 • Best paper award: "Efficient simulation of (Log)Normal Random Fields for Hydrogeological Applications" (co-authored with Gaganis), published in *Mathematical Geosciences*, 45(6): 531-556. Selected as the best paper for 2013 (out of a total of 48 published papers); see the related announcement of the International Association for Mathematical Geosciences (IAMG) in the November 2014 issue of Mathematical Geosciences, 46(8): 1035-1037, DOI 10.1007/s11004-014-9572-8, as well as in the biannual IAMG Newsletter No. 89 (Winter 2014).

2010 • Best paper award: "Geostatistical Regression for Areal Data" (co-authored with Nagle), and published in the proceedings of the 9^{th} *International Symposium on Spatial Accuracy Assessment in Natural Resources and Environmental Sciences*, Leicester, UK, July 20-23.

1999 • Exemption (until 2003) from the obligatory military services of Greece due to distinguished scientific activities abroad.

1997 • First place in written competition on Statistics in Geology organized by the National Scholarship Foundation of Greece.

1994 • Honors degree from the Department of Geology of the Aristotelian University of Thessaloniki, Greece. Highest GPA in graduating class, and among the five highest GPAs in the Department's history.

Grants & Contracts

2019-20 • *GEOWINDSAT: Geostatistical Downscaling of wind field predictions using high resolution satellite data*. PI: **Kyriakidis**. Funding Source: Cyprus Research Promotion Foundation, International Collaborations – Dual Targeting Program. Amount: €$80,000$.

Grants & Contracts

2018-21 • ΘΑΛ-ΧΩΡ 2: Trans-border Collaboration for the application of Marine Spatial Planning. PI: Cyprus Deputy Ministry of Shipping. CUT PI: Hadjimitsis. Funding Source: Interreg V-A Greece-Cyprus, Territorial Co-operation. Amount: €$2,757,000$.

2018-21 • Digitization Pilots for the Cultural Heritage of the Churches of Crete and Cyprus. PI: Holly Archdiocese of Limassol. CUT PI: Hadjimitsis. Funding Source: Interreg V-A Greece-Cyprus, Territorial Co-operation. Amount: €$930,000$.

2017-18 • *MedSTACH: Eastern Mediterranean Science and Technology Center of Excellence for Archaeology and Cultural Heritage*. PI: **Kyriakidis**. Funding Source: H2020-WIDESPREAD-04-2017 - Teaming Phase 1. Amount: €$0.4M$.

2016-19 • *iMareCulture: Advanced VR, iMmersive serious games and Augmented REality as tools to raise awareness and access to European underwater CULTURal heritagE*. PI: Skarlatos. Funding source: Call H2020 CULT-COOP-08-2016: Virtual museums and social platform on European digital heritage, memory, identity and cultural interaction. Amount: €$2.7M$.

2015-18 • *Clima: Cultural Landscape risk Identification, Management and Assessment*. P.I. Universitá degli studi della Tuscia. CUT PI: Hadjimitsis. Funding source: Joint Programming Initiative (JPI) on Cultural Heritage. Amount: €$614,444$.

2015-18 • *Prothego: PROTection of European Cultural Heritage from GeO-hazards*. P.I. Instituto Superiore per la Protezione e la Ricerca Ambientale, Geological Survey of Italy. CUT PI: Hadjimitsis. Funding source: Joint Programming Initiative (JPI) on Cultural Heritage. Amount: €$598,680$.

2014-19 • *Demonstrating an Effective Marine Biodiversity Observation Network in the Santa Barbara Channel*. PI: Miller, Co-PIs: Carlson, Lafferty, Rassweiler, Reed, **Kyriakidis**, Siegel, Iglesias-Rodriguez, Manjunath, Love, Thompson, Hildebrand, McCauley. Funding sources: NASA, NOAA. *This project is funded as part of the US National Oceanographic Partnership Program federal funding opportunity "FY2014 Demonstration of a U.S. Marine Biodiversity Observation Network (Marine BON)", with an overall budget of approximately $*$6,000,000$ over 5 years.* Current involvement: Associate investigator (without salary).

2013-15 • *Collaborative Research: Thermal Controls on Ecosystem Metabolism and Function: Scaling from Leaves to Canopies to Regions*. PI: Roberts, Co-I: **Kyriakidis**. Funding source: National Science Foundation (NSF). Amount: $\$255,000$. This project is part of a larger collaborative project involving Oregon State, Harvard, UPenn, UC Irvine, and UC Santa Barbara, led by Prof. Still at Oregon State, and funded by NSF's MacroSystems Biology program with an overall budget of approximately $\$1,008,000$ over 2 years.

2012-15 • *Advances in Geostatistics for Environmental Characterization and Natural Resources Management*. PI: **Kyriakidis**. Funding source: Greek General Secretariat for Research and Technology. Amount: €$250,000$.

2007-11 • *A Geostatistical Framework for Geospatial Data Analysis and Modeling Across Multiple Spatial and Temporal Scales*. PI: Goodchild, Co-PI: **Kyriakidis**. Funding source: National Geospatial-Intelligence Agency (NGA). Amount: $\$450,000$.

2008-09 • *Modeling Soil Moisture in California Across Multiple Scales*. PI: Chadwick, Co-PIs: Roberts & **Kyriakidis**. Funding source: Kearney Foundation of Soil Science ($\$88,951$).

Grants & Contracts

2007-09 • *Remote Assessment of Giant Kelp Dynamics – The Engineer of California's Near-Shore Ecosystems*. PI: Siegel, Co-I: **Kyriakidis**. Funding source: National Aeronautics and Space Administration (NASA). Amount: $\$859,049$.

2005-06 • *Intra-urban Industrial Location Under Institutional and Accessibility Constraints: An Empirical Approach*. PI: Sweeney, Co-PI: **Kyriakidis**. Funding source: National Science Foundation (NSF). Amount: $\$100,000$.

2004-06 • *A Geostatistical Framework for Downscaling Spatial Data*. PI: **Kyriakidis**. Funding source: National Science Foundation (NSF). Amount: $\$125,002$.

2004-06 • *An Integrated, Dynamic and Predictive Model of Wildfire Risk in Southern California Using MODIS Imagery*. PI: **Kyriakidis**, Co-PI: Schneider. Funding source: National Aeronautics and Space Administration (NASA). Amount: $\$48,000$.

2004-07 • *Strategic Enhancement of NGA's Geographic Information Science Infrastructure* PI: Goodchild, Co-I: **Kyriakidis**. Funding source: National Geospatial-Intelligence Agency (NGA). Amount: $\$693,000$.

2004-05 • *Instructional Improvement Grant: An Integrated Software Environment for Enhanced Geographic Education*. PIs: Sweeney and **Kyriakidis**. Funding source: Academic Senate University of California Santa Barbara. Amount: $\$24,000$.

2003-05 • *A Systems Approach to the Visualization of Spatial Uncertainty*. PI: **Kyriakidis**. Funding source: National Science Foundation. Amount: $\$69,951$.

2002-03 • *Sub-County Population and Household Projections for SCAG Sub-Regions, Cities, and Unincorporated Areas to 2025*. PI: Sweeney, Co-PI: **Kyriakidis**. Funding source: Southern California Association of Governments (SCAG). Amount: $\$74,937$.

2001 • *Junior Faculty Research Incentive Award*. PI: **Kyriakidis**. Funding source: Academic Senate, University of California Santa Barbara. Amount: $\$5,000$.

Publications

Peer-Reviewed Journals

65 • Poullis, C., Kersten-Oerte, M., Benjamin, J.P., Philbin-Briscoe, O., Simon, B., Perissiou, D., Demesticha, S., Markou, E., Frentzos, E., **Kyriakidis**, P., Skarlatos, D., Rizvic, S. (2019): Evaluation of the "Seafarers": A serious game on seaborne trade in the Mediterranean Sea during the Classical period, *Digital Applications in Archaeology and Cultural Heritage*, https://doi.org/10.1016/j.daach.2019.e00090 (in press)

64 • Alverti, M.N., Themistocleous, K., **Kyriakidis**, P.C., and Hadjimitsis, D., (2018): A human centric approach on the analysis of the Smart City concept: the case study of Limassol city in Cyprus, *Advances in Geosciences*, 45, 305-320. https://doi.org/10.5194/adgeo-45-305-2018.

63 • Liodakis, S., **Kyriakidis**, P., and Gaganis, P. (2018): Conditional Latin hypercube simulation of (log)Gaussian random fields, *Mathematical Geosciences*, 50(2), 127-146.

62 • Kwak, G.-H., Park, N.-W., and **Kyriakidis**, P.C. (2018): Development of an R-based spatial downscaling tool to predict find scale information from coarse satellite products, *Korean Journal of Remote Sensing*, 34(1), 89-99.

Publications

61 • Şalap-Ayça, S., Jankowski, P., Clarke, C., **Kyriakidis**, P., and Nara, A. (2018): A meta-modeling approach for spatio-temporal uncertainty and sensitivity analysis: An application for a Cellular Automata based urban growth and land use change model, *International Journal for Geographical Information Science*, 32(4), 637-662.

60 • Sales, M., de Bruin, S., Herold, M., **Kyriakidis**, P., Souza Jr., C. (2017): A spatiotemporal geostatistical hurdle model approach for short-term deforestation prediction, *Spatial Statistics*, 21(1), 304-318, doi:10.1016/j.spasta.2017.06.003.

59 • Park, N.-W., **Kyriakidis**, P.C., and Hong, S. (2017): Geostatistical integration of coarse resolution satellite precipitation products and rain gauge data to map precipitation at fine spatial resolutions, *Remote Sensing*, 9(3), 255. doi:10.3390/rs9030255.

58 • Sifaki-Pistolla, D., Lionis, C., Georgoulias, V., **Kyriakidis**, P., Koinis, F., Aggelaki, S., and Tzanakis, N. (2017): Lung cancer and tobacco smoking in Crete, Greece: Reflections from a population-based cancer registry from 1992 to 2013, *Tobacco Induced Diseases*, 15(6). DOI: 10.1186/s12971-017-0114-2.

57 • Park, N.-W., Hong, S., **Kyriakidis**, P.C., Lee W., and Lyu S.-J. (2016): Geostatistical downscaling of AMSR2 precipitation with COMS infrared observations, *International Journal of Remote Sensing*, 37(16), 3858-3869. doi:10.1080/01431161.2016.1204031.

56 • López-Carr, D., Mwenda, K.M., Pricope, N.G., **Kyriakidis**, P.C., Jankowska, M.M., Weeks, J., Funk, C., Husak, G., and Michaelsen, J. (2016): Climate-related child undernutrition in the Lake Victoria Basin: An integrated spatial analysis of health surveys, NDVI, and precipitation data, *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 9(6): 2830 2835. doi:10.1109/JSTARS.2016.2569411.

55 • Park, N.-W., **Kyriakidis**, P.C., and Hong, S.-Y. (2016): Spatial estimation of classification accuracy using indicator Kriging with an image-derived ambiguity index, *Remote Sensing*, 8(4), 320; doi:10.3390/rs8040320.

54 • Mwenda, K.M., **Kyriakidis**, P.C., and López-Carr D. (2015): Quantifying spatial uncertainty of population estimates: Evidence from three Tanzanian districts, *Plurimondi*, VIII, 215-221.

53 • Liodakis, S., **Kyriakidis**, P., and Gaganis, P. (2015): Efficient uncertainty analysis in an anisotropic three dimensional hydrogeological model of flow and transport, *Mathematics in Engineering, Science and Aerospace*, 6(4), 657-673.

52 • Liodakis, S., **Kyriakidis**, P., and Gaganis, P. (2015): Accounting for model sensitivity in controlled (log)Gaussian geostatistical simulation, *Spatial Statistics*, 14, Part C, 224-239. doi:10.1016/j.spasta.2015.05.007.

51 • Menzer, O., Meiring, W., **Kyriakidis**, P.C., and McFadden, J.P. (2015): Annual sums of carbon dioxide exchange over a heterogeneous urban landscape through machine learning based gap-filling, *Atmospheric Environment*, 101, January 2015, 312–327. doi:10.1016/j.atmosenv.2014.11.006.

50 • Kavroudakis, D., and **Kyriakidis**, P.C. (2013): "DTH 1.0": Towards an artificial intelligence system for geographical analysis of health data, *European Journal of Geography*, 4(3), 38–49.

49 • **Kyriakidis**, P.C., and Gaganis, P. (2013): Efficient simulation of (log)normal random fields for hydrogeological applications, *Mathematical Geosciences*, 45(5), 531–556. DOI 10.1007/s11004-013-9470-5.

Publications

48 • Palaiologou, P., Kalabokidis, K., and **Kyriakidis**, P. (2013): Forest mapping by geoinformatics for landscape fire behaviour modelling in coastal forests, Greece, *International Journal of Remote Sensing*, 34(12), 4466–4490.

47 • Hamada, Y., Stow., D.A., Roberts, D.A., Franklin, J., and **Kyriakidis**, P.C. (2013): Assessing and monitoring semi-arid shrublands using object-based image analysis and multiple endmember spectral mixture analysis, *Environmental Monitoring and Assessment*, 185(4), 3173–3190.

46 • Sales, M.H., Sousa Jr., C.M., and **Kyriakidis**, P.C. (2013): Fusion of MODIS images using Kriging with External Drift, *IEEE Transactions on Geoscience and Remote Sensing*, 51(4): 2250–2259.

45 • Cao, G., **Kyriakidis**, P.C., and Goodchild, M.F. (2012): Response to 'Comments on "Combining spatial transition probabilities for stochastic simulation of categorical fields" with communications on some issues related to Markov chain geostatistics', *International Journal of Geographical Information Science*, 26(10): 1741–1750.

44 • Cao, G., **Kyriakidis**, P.C., and Goodchild, M.F. (2011): A multinomial logistic mixed model for the prediction of categorical spatial data, *International Journal of Geographical Information Science*, 25(12): 2071–2086.

43 • Cao, G., **Kyriakidis**, P.C., and Goodchild, M.F. (2011): Combining spatial transition probabilities for stochastic simulation of categorical fields, *International Journal of Geographical Information Science*, 25(11): 1773–1791.

42 • Guan, Q., **Kyriakidis**, P.C., and Goodchild, M.F. (2011): A parallel computing approach to fast geostatistical areal interpolation, *International Journal of Geographical Information Science*, 25(8): 1241–1267.

41 • Legleiter, C.J., **Kyriakidis**, P.C., McDonald R.R., and Nelson J.M. (2011): Effects of uncertain topographic input data on two-dimensional flow modeling in a gravel-bed river, *Water Resources Research*, 47, W03518, doi:10.1029/2010WR009618.

40 • Husak, G.J., Michaelsen, J., **Kyriakidis**, P.C., Verdin, J.P., Funk, C., and Galu, G. (2011): The forecast interpretation tool – A Monte Carlo technique for blending climatic distributions with probabilistic forecasts, *International Journal of Climatology*, 31(3): 461–467.

39 • Nagle, N.N., Sweeney, S.H., and **Kyriakidis**, P.C. (2011): A geostatistical linear regression model for small-area data, *Geographical Analysis*, 43(1): 38–60.

38 • Yoo, E.-H., **Kyriakidis**, P.C., and Tobler, W. (2010): Reconstructing population density surfaces from areal data: A comparison of Tobler's pycnophylactic interpolation method and area-to-point Kriging, *Geographical Analysis*, 42(1): 78–98.

37 • Yoo, E.-H., and **Kyriakidis**, P.C. (2009): Area-to-point Kriging in spatial hedonic pricing models, *Journal of Geographical Systems*, 11(4): 381–406.

36 • Zhang, J., **Kyriakidis**, P.C., and Kelly, R. (2009): Geostatistical approaches to conflation of continental snow data, *International Journal of Remote Sensing*, 30(20): 5441–5451.

35 • Goodchild, M.F, Zhang, J., and **Kyriakidis**, P.C. (2009): Discriminant models of uncertainty in nominal fields, *Transactions in GIS*, 13(1): 7–23.

34 • Park, N.-W., and **Kyriakidis**, P.C. (2008): Geostatistical integration of different sources of elevation and its effect on landslide hazard mapping, *Korean Journal of Remote Sensing*, 24(5): 453–462.

33 • Yoo, E.-H., and **Kyriakidis**, P.C. (2008): Area-to-point prediction under boundary conditions, *Geographical Analysis*, 40(4): 355–379.

Publications

32 • Schneider, P., Roberts, D.A., and **Kyriakidis**, P.C. (2008): A VARI-based relative greenness from MODIS data for computing the Fire Potential Index, *Remote Sensing of Environment* 112(3): 1151–1167.

31 • Liu, X., **Kyriakidis**, P.C., and Goodchild, M.F. (2008): Population density estimation using regression and area-to-point residual Kriging, *International Journal of Geographical Information Science* 22(4): 431–447.

30 • Legleiter, C., and **Kyriakidis**, P.C. (2008): Spatial prediction of river channel topography by Kriging, *Earth Surface Processes and Landforms* 33(6): 841–867.

29 • Boucher, A., **Kyriakidis**, P.C., and Cronkite-Ratcliff, C. (2008): Geostatistical solutions for super-resolution land cover mapping, *IEEE Transactions on Geoscience and Remote Sensing*, 46(1): 272–283.

28 • Zhang, J., Goodchild, M., and **Kyriakidis**, P. (2007): A conceptual framework for categorical mapping and error modeling, *Acta Geodaetica et Cartographica Sinica*, 3(8): 296–301.

27 • Sales, M.H., Souza Jr., C.M., **Kyriakidis**, P.C., Roberts, D.A., and Vidal, E. (2007): Improving spatial distribution estimation of aboveground forest biomass with geostatistics: A case study of Rondônia, Brazil, *Ecological Modelling*, 205(1-2): 221–230.

26 • Ekström, M., **Kyriakidis**, P.C., Chappell, A., and Jones, P. (2007): Spatiotemporal stochastic simulation of monthly rainfall patterns in the United Kingdom (1980-1987), *Journal of Climate*, 20(16): 4194–4210.

25 • Boucher, A., and **Kyriakidis**, P.C. (2007): Integrating fine scale information in super-resolution land cover mapping, *Photogrammetric Engineering & Remote Sensing*, 73(8): 913–921.

24 • Legleiter, C., and **Kyriakidis**, P.C. (2006): Forward and inverse transformations between Cartesian and channel-fitted coordinate systems for meandering rivers, *Mathematical Geology*, 38(8): 927–958.

23 • Yoo, E.-H., and **Kyriakidis**, P.C. (2006): Area-to-point Kriging with inequality-type data, *Journal of Geographical Systems*, 8(4): 357–390.

22 • Boucher, A., and **Kyriakidis**, P.C. (2006): Super-resolution land cover mapping with indicator geostatistics, *Remote Sensing of Environment*, 104(3): 264–282.

21 • **Kyriakidis**, P.C., and Goodchild, M.F. (2006): On the prediction error variance of three common spatial interpolation schemes, *International Journal of Geographical Information Science*, 20(8): 823–855.

20 • Adler, P.B., Hille Ris Lambers, J., **Kyriakidis**, P.C., Guan, Q., and Levine, J.M. (2006): Climate variability has a stabilizing effect on the coexistence of prairie grasses, *Proceedings of the National Academy of Sciences*, 103(34): 12793–12798.

19 • Holmes, K.W., Chadwick, O.A., **Kyriakidis**, P.C., Silva de Filho, E.P., Soares, J.V., and Roberts, D.A. (2006): Large-area spatially explicit estimates of tropical soil carbon stocks and response to land-cover change, *Global Biogeochemical Cycles*, 20(3), GB3004, doi:10.1029/2005GB002507.

18 • **Kyriakidis**, P.C., and Yoo, E.-H. (2005): Geostatistical prediction and simulation of point values from areal data, *Geographical Analysis*, 37(2): 124–151.

17 • Holmes, K.W., **Kyriakidis**, P.C., Chadwick, O.A., Soares, J.V. and Roberts, D.A. (2005): Multi-scale variability in tropical soil nutrients following land-cover change, *Biogeochemistry*, 74(2): 173–203.

Publications

16 • Washburn, L., Clark, J., and **Kyriakidis**, P.C. (2005): The spatial scales, distribution, and intensity of natural marine hydrocarbon seeps near Coal Oil Point, California, *Marine and Petroleum Geology*, 22(4): 569–578.

15 • **Kyriakidis**, P.C., Miller, N.L., and Kim, J. (2004): A spatial time series framework for simulating daily precipitation at regional scales, *Journal of Hydrology*, 297(1-4): 236–255.

14 • **Kyriakidis**, P.C. (2004): A geostatistical framework for area-to-point spatial interpolation, *Geographical Analysis*, 36(3): 259–289.

13 • **Kyriakidis**, P.C., and Dungan, J.L. (2001): A geostatistical approach for mapping thematic classification accuracy and evaluating the impact of inaccurate spatial data on ecological model predictions, *Environmental and Ecological Statistics*, 8(4): 311–330.

12 • **Kyriakidis**, P.C., Kim, J., and Miller, N.L. (2001): Geostatistical mapping of precipitation from rain gauge data using atmospheric and terrain characteristics, *Journal of Applied Meteorology*, 40(11): 1855–1877.

11 • **Kyriakidis**, P.C., and Journel, A.G. (2001): Stochastic modeling of atmospheric pollution, a spatial time series framework. Part II: Application to monitoring monthly sulphate deposition over Europe, *Atmospheric Environment*, 35(13): 2339–2348.

10 • **Kyriakidis**, P.C., and Journel, A.G. (2001): Stochastic modeling of atmospheric pollution, a spatial time series framework. Part I: Methodology, *Atmospheric Environment*, 35(13): 2331–2337.

9 • **Kyriakidis**, P.C., Miller, N.L., and Kim, J. (2001): Uncertainty propagation of regional climate precipitation forecasts to hydrologic impact assessment, *Journal of Hydrometeorology*, 2(2): 140–160.

8 • Holmes, K.W., Chadwick, O.A., and **Kyriakidis**, P.C. (2000): Error in a USGS 30m digital elevation model and its impact on terrain modeling, *Journal of Hydrology*, 233: 154–173.

7 • Journel, A.G., **Kyriakidis**, P.C., and Mao, S. (2000): Correcting the smoothing effect of estimators: A spectral post-processor, *Mathematical Geology*, 32(7): 787–813.

6 • Loague, K., Gander, G.A., Van der Kwaak, J.E., Abrahams, R.H., and **Kyriakidis**, P.C. (2000): Simulating hydrologic response for the R-5 catchment: A never ending story, *Journal of Floodplain Management*, 1(2): 57–83.

5 • **Kyriakidis**, P.C., and Journel, A.G. (1999): Geostatistical space-time models: A review, *Mathematical Geology*, 31(6): 651–684.

4 • **Kyriakidis**, P.C., Deutsch, C.V., and Grant, M.L. (1999): Calculation of the normal scores variogram for truncated Gaussian lithofacies simulation: Theory and FORTRAN code, *Computers & Geosciences*, 25(2): 161–169.

3 • **Kyriakidis**, P.C., Shortridge, A.M., and Goodchild, M.F. (1999): Geostatistics for conflation and accuracy assessment of digital elevation models, *International Journal of Geographical Information Science*, 13(7): 677–708.

2 • Wahlstrom, E., Loague, K., and **Kyriakidis**, P.C. (1999): Hydrologic response: Kaho'olawe, Hawaii, *Journal of Environmental Quality*, 28: 481–492.

1 • Loague, K., and **Kyriakidis**, P.C. (1997): Spatial and temporal variability in the R-5 infiltration data set: Déjà vu and rainfall-runoff simulations, *Water Resources Research*, 33(12): 2883–2895.

Publications

Peer-Reviewed Conference Proceedings

25 • Chrysoulidis, S.E., and **Kyriakidis**, P.C. (2018): Personalised security: A step towards applied human security, *The 4th International Academic Conference on Human Security (IC4HS) Human Security and New Technologies*, Belgrade, Serbia, November 2-3, 2018.

24 • **Kyriakidis**, P., Agapiou A., and Lysandrou, V. (2018): Designing a geospatial technologies-enabled Eastern Mediterranean science, engineering and technology centre of excellence for archaeology and cultural heritage, in Proceedings of: *AGILE 2018: 21st Conference on Geo-Information Science*, Lund, Sweden, June 12-15, 2018.

23 • Liodakis, S., **Kyriakidis**, P., and Gaganis, P. (2018): Efficient geostatistical simulation for spatial uncertainty propagation, in: *AGILE 2018: 21st Conference on Geo-Information Science*, Lund, Sweden, June 12-15, 2018.

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5 • Yoo, E.-H., and **Kyriakidis**, P.C.: Extension of a geostatistical framework for reconstructing population density surfaces, 102^{nd} *Annual Meeting of the Association of American Geographers*, Chicago, IL, March 2006.

4 • **Kyriakidis**, P.C. (2005): A Geostatistical Framework for area-to-point spatial interpolation, 101^{st} *Annual Meeting of the Association of American Geographers*, Denver, CO, April 2005.

3 • Schneider, P., Goodchild, M.F., **Kyriakidis**, P.C., Guan, Q., Hastings, J., and Rice, M.: A framework for areal interpolation and its applications for geospatial data interoperability in a distributed GIS environment, 101^{st} *Annual Meeting of the Association of American Geographers*, Denver, CO, April 2005.

2 • **Kyriakidis**, P.C.: A systems approach to the visualization of spatial uncertainty, *Centennial Annual Meeting of the Association of American Geographers*, Philadelphia, PA, March 2004.

1 • **Kyriakidis**, P.C.: On the use of interpolation in spatial analysis, 98^{th} *Annual Meeting of the Association of American Geographers*, Los Angeles, CA, March 2002.

Proceedings of Research Unit Meetings

5 • Boucher, A., and **Kyriakidis**, P.C. (2006): Super-resolution land cover mapping with indicator geostatistics, in: *Proceedings of the* 19^{th} *Annual Meeting of the Stanford Center for Reservoir Forecasting*, Stanford University, CA, May 2006.

4 • Liu, Y., Jiang, Y., and **Kyriakidis**, P.C. (2006): Calculation of average covariance using Fast Fourier Transform (FFT), in: *Proceedings of the* 19^{th} *Annual Meeting of the Stanford Center for Reservoir Forecasting*, Stanford University, CA, May 2006.

Publications

3 • **Kyriakidis**, P.C., Journel, A.G., and Mao, S. (1999): Correcting the smoothing effect of estimators: A spectral post-processor, in: *Proceedings of the* 12^{th} *Annual Meeting of the Stanford Center for Reservoir Forecasting*, Stanford University, CA, May 1999.

2 • **Kyriakidis**, P.C. (1998): Stochastic modeling of spatiotemporal distributions: Application to monitoring sulphate deposition over Europe, in: *Proceedings of the* 11^{th} *Annual Meeting of the Stanford Center for Reservoir Forecasting*, Stanford University, CA, May 1998.

1 • **Kyriakidis**, P.C. (1997): Stochastic models for spatiotemporal phenomena: A review and a proposal, in: *Proceedings of the* 10^{th} *Annual Meeting of the Stanford Center for Reservoir Forecasting*, Stanford University, CA, May 1997.

Presentations

MedSTACH Dissemination/Promotion/Networking

- Walk of Truth, Limassol, Cyprus – 30/05/2018
- Limassol Municipality, Limassol, Cyprus – 26/04/2018
- Greek Ministry of Culture and Sports, Athens, Greece – 03/03/2018
- Greek National Tourism Organization, Athens, Greece – 23/02/2018
- Department of Lands and Surveys, Nicosia, Cyprus – 22/02/2018
- Geological Survey Department, Nicosia, Cyprus – 16/02/2018
- Microsoft Cyprus / Reyelise, Nicosia, Cyprus – 29/01/2018
- Cyprus Cultural Centre: House of Cyprus, Athens, Greece – 25/01/2018
- Department of Antiquities of Cyprus, Cyprus Museum, Nicosia, Cyprus – 08/01/2018
- Technical Chamber of Cyprus, Nicosia, Cyprus – 20/12/2017
- Archaeological Research Unit, University of Cyprus, Nicosia, Cyprus – 05/12/2017
- British High Commission, Nicosia, Cyprus – 03/10/2017

In Meetings & Workshops

- Sifaki-Pistolla, D., Chatzea, V.-E., Frouzi, E., Georgoulias, V., Aggelaki, S., **Kyriakidis**, P., Lionis, C., and Tzanakis, N. (2016): Evidence-based toolkit of spatial epidemiology and analysis to enhance cancer surveillance, *European Network of Cancer Registries Scientific Meeting and General Assembly*, Baveno, Italy, October 5-7, 2016.
- **Kyriakidis**, P: A geostatistical framework for studying the modifiable area unit and ecological inference problems, *8th Conference of the Hellenic Society for Geographical Information Systems*, Athens, Greece, December 2014.
- López-Carr D., Bookhagen, B., and **Kyriakidis**, P.: A Vision for Geography: Dynamic Integration of Human and Physical Sciences in Space and Place, *76th Annual Meeting of the Association of Pacific Coast Geographers*, Lake Tahoe, CA, September 2013.
- **Kyriakidis**, P.C.: Spatial uncertainty and decision making. *Vespucci Institute: Synthesizing Population, Health, and Place*, Wrigley Marine Science Center, University of Southern California, Catalina Island, CA, April 2013.
- **Kyriakidis**, P.C.: Applications of geostatistics in hydrocarbon research: Data integration, geomodel development and uncertainty. *Hydrocarbon Prospecting, Research and Exploitation*, Aristotle University of Thessaloniki, Greece, March 2012.

Presentations

- Sales, M.H., Souza, C., **Kyriakidis**, P.C., Roberts, D.A., and Vidal, E.J.: Estimating aboveground forest biomass using geostatistics: A case study of Rondonia, southern Brazilian Amazon. *LBA-ECO* 9^{th} *Science Team Meeting*, Sao Paulo, Brazil, November 2005.
- Goodchild, M.F., **Kyriakidis**, P.C., Schneider, P., Guan, Q., and Rice, M.: Improving spatial support interoperability: A computationally fast, geostatistical approach and its GIS implementation, *Army Research Office Principal Investigator Research Review Meeting*, US Army Corps of Engineers Topographical Engineering Center, Ft. Belvoir, VA, September 2005.
- Goodchild, M.F., **Kyriakidis**, P.C., Schneider, P., Guan, Q., and Rice, M.: Improving spatial support interoperability: A computationally fast, geostatistical approach and its GIS implementation, *National Geospatial-Intelligence Agency Academic Research Program Symposium (NARP)*, National Academy of Sciences, Washington, D.C., September 2005.
- Goodchild, M.F., **Kyriakidis**, P.C., Schneider, P., Rice, M., Guan, Q., and Hastings, J.: Improving spatial data interoperability: A framework for geostatistical support-to-support interpolation, *U.S. Army Research Office Principal Investigator Research Review Meeting*, US Army Corps of Engineers Topographical Engineering Center, Ft Belvoir, VA, February 2005.
- **Kyriakidis**, P.C.: Some geostatistical concepts for interoperability, *NCGIA Specialist Meeting on Spatial Webs*, Santa Barbara, CA, December 2004.
- Goldsberry, K., Fabrikant, S.I., and **Kyriakidis**, P.C.: The influence of classification choice on animated choropleth maps, *Annual Meeting of the North American Cartographic Society*, Portland, Maine, October 2004.
- Holmes, K.W., **Kyriakidis**, P.C., Chadwick, O.A., Matricardi, E., Soares, J., and Roberts, D.A.: Impact of land-cover change on soil nutrient levels at multiple spatial scales, *7th LBA-ECO Science Team Business Meeting*, Fortaleza, Ceara, Brazil, November 2003.
- Holmes, K.W., **Kyriakidis**, P.C., Matricardi, E., Batista, G.T., Chadwick, O.A.: Modeling regional soil patterns based on lithology and topographic attributes, *LBA-Ecology International Science Meeting*, Manaus, Brazil, July 2002.
- Loague, K., and **Kyriakidis**, P.C.: R-5 revisited, again: A closer look at the spatial and temporal variability in an infiltration data set for a small rangeland catchment, invited presentation, *Workshop on Scale Problems in Hydrology*, Schlob Krumbach, Austria, June 1996.

Invited Seminars & Colloquia

All presentations are given by **Kyriakidis**, *unless otherwise noted*

- Promoting uncertainty analysis in hydrogeology via efficient geostatistical simulation, Institute of Earth Surface Dynamics Seminar Series, University of Lausanne, Switzerland, May, 2018.
- Efficient uncertainty assessment methods in spatially distributed hydrogeological models of flow and transport, (presented by Liodakis, S.), in: *Space-Time Stochastic Models and their Applications*, Scientific Workshop, Geostatistics Laboratory, School of Mineral Resources Engineering, Technical University of Crete, September, 2015.
- Efficient simulation of (log)normal random fields for hydrogeological applications, *Department of Mathematics and Statistics Seminar Series*, University of Cyprus, Nicosia, Cyprus, November 2013.
- Dynamic visualization of spatial uncertainty with geostatistics, *Geomatics Seminar Series*, Department of Civil, Environmental and Geomatic Engineering, Swiss Federal Institute of Technology (ETH), Zurich, Switzerland, September 2011.

Presentations

- Recent developments in reconstructing attribute surfaces from areal data, *Postgraduate Colloquium Series*, Department of Geography, Harokopion University, Athens, Greece, May 2011.
- An overview of geostatistical modeling concepts, *Colloquium Series*, Department of Geomatics Engineering, Inha University, Incheon, South Korea, September 2010.
- Super-resolution simulation of land cover patterns, *GISLERS Summer School: Bridging GIS, Landscape Ecology and Remote Sensing for Landscape Planning*, Centre for Geoinformatics, University of Salzburg, Salzburg, Austria, July 2009.
- Some geostatistical approaches for downscaling spatial data, *Colloquium Series*, Department of Geography, San Diego State University, San Diego, December 2008.
- Geostatistical super-resolution land cover mapping from coarse class fractions, *Colloquium Series*, Department of Geography, University of Colorado, Boulder, March 2008.
- Geostatistical approaches for super-resolution land cover mapping, *National Center for Geocomputation Seminar Series*, National Center for Geocomputation, Maynooth, Ireland, February 2008.
- Evaluation of recoverable mineral reserves: A geostatistical simulation approach, *Director's Seminar Series*, Greek Geological Institute, Athens, Greece, May 2006.
- Geostatistical super-resolution land cover mapping, *Post-Graduate Seminar Series on Geography and Applied Geographic Information Science*, Department of Geography, University of the Aegean, Greece, May 2006.
- Areal interpolation from an inverse problem perspective: Geostatistical solutions and some well-known particular cases, *Colloquium on Geographic Information Science*, Department of Geography, University of Zurich, Switzerland, May 2006.
- Super-resolution land cover mapping with indicator geostatistics, *Brown-Bag Seminar*, Department of Geography, University of Zurich, Switzerland, May 2006.
- Schneider, P., **Kyriakidis**, P.C., Goodchild, M.F., Guan, Q., and Rice, M.: Applications of geostatistics for improving spatial support Inter-operability of GIS, *Joint Colloquium of the University of Redlands Master's of GIS Program and the Environmental Systems Research Institute (ESRI)*, Environmental Systems Research Institute, Redlands, CA, October 2005.
- On the role of geostatistics in spatial analysis, *Geographic Science Seminar "Why Space Matters"*, Department of Geological and Environmental Sciences, Stanford University, CA, May 2005.
- Spatial analysis of areal data: The geostatistical alternative, *NCGIA Brown-Bag Seminar*, Department of Geography, UCSB, October 2003.
- Area-to-point spatial interpolation using geostatistics, *Quantitative Methods in Social Sciences Colloquium*, UCSB, April 2003.
- Changing spatial resolution using geostatistics, *NCGIA Brown-Bag Seminar*, Department of Geography, UCSB, November 2002.
- Dynamic visualization of spatial uncertainty via gradual deformation of conditional stochastic simulations, *Department of Geography Colloquium Series*, UCSB, February 2001.
- On the role of geostatistics in geographical information science, *Department of Geography Colloquium Series*, UCSB, January 2000.
- Geostatistics for environmental applications, *Earth Sciences Division Colloquium Series*, Berkeley National Laboratory, May 1999.

Presentations

- Modern geostatistics: A comprehensive framework for environmental risk assessment, *Donald Bren School of Environmental Science and Management Colloquium Series*, UCSB, February 1999.
- Geostatistical space-time models and their application to monitoring sulphate deposition, *Hydrogeology Seminar Series*, Department of Geological and Environmental Sciences, Stanford University, January 1999.
- Stochastic space-time models for sulphate deposition, *Earth Sciences Division Colloquium*, NASA-Ames Research Center, January 1999.
- Beyond summary statistics for assessing accuracy in digital elevation models, *NCGIA Brown Bag Seminar*, Department of Geography, UCSB, August 1997.
- Geostatistical space-time models, *NCGIA Brown-Bag Seminar*, Department of Geography, UCSB, July 1997.
- Stochastic imaging for spatial uncertainty assessment and integration of secondary (soft) information, *NCGIA Brown-Bag Seminar*, Department of Geography, UCSB, May 1997.
- Selecting panels for remediation in contaminated soils via stochastic imaging, *Environmental and Earth Sciences Division Colloquia*, Sandia National Laboratory, July 1996.
- Selecting panels for remediation in contaminated soils via stochastic imaging, *Environmental and Earth Sciences Division Colloquia*, Los Alamos National Laboratory, July 1996.

Scientific Recognition

Citations to Published Work

Scopus
- Number of cited documents = 71. Number of citations = 2251. **h-index = 25**. Number of citations excluding self citations of all (co)authors = 2038. **h-index = 24**. Number of citations excluding citations from books = 2140. **h-index = 25**. Search date: January 20, 2019.

WebSci
- [Web of Science] Total number of publications = 65. Number of times cited = 1962 (without self-citations = 1900). Number of citing articles = 1641 (without self-citations = 1606). **h-index = 23**. Search date: January 20, 2019.

Google
- [Google Scholar] Number of citations = 3350. **h-index = 29**. Search date: January 20, 2019.

Keynote Speaker

2018
- Eastern Mediterranean Science and Technology Centre of Excellence for Archaeology and Cultural Heritage (MedSTACH): Context, Vision, Mission & Objectives, *10th Conference of the Hellenic Society for Geographical Information Systems*, Athens, Greece, November 12-14.

2014
- A geostatistical framework for studying the modifiable area unit and ecological inference problems, *8th Conference of the Hellenic Society for Geographical Information Systems*, Athens, Greece, December 11-12.

2008
- Perspectives on geostatistical downscaling, *geoENV 2008: 7^{th} International Conference on Geostatistics for Environmental Applications*, Southampton, UK, September 8-10.

Scientific Recognition

2006 • Towards a systems approach to the visualization of spatial uncertainty, 7^{th} *International Symposium on Spatial Accuracy Assessment in Natural Resources and Environmental Sciences*, Lisbon, Portugal, July 5-7.

1999 • Stochastic imaging for assessing the impact of imprecise spatial information on ecological models, *International Statistics Institute (ISI) Cutting Edge Conference on Spatial Statistics for Production Ecology, GIS, Remote Sensing, and Modeling*, Wageningen, The Netherlands, April 19-21.

2002 • Plenary discussant: Spatial Analysis and Modeling (SAM) Specialty Group of the Association of American Geographers (AAG), 98^{th} *Annual Meeting of the Association of American Geographers*, Los Angeles, CA, March 19-23.

Research Achievements/Distinctions

2017 • European project MedSTACH The proposal entitled *Eastern Mediterranean Science and Technology Centre of Excellence for Archaeology and Cultural Heritage*, with acronym MedSTACH and budget €400.000 from Horizon 2020, was ranked **first** attaining an excellent score (15/15) out of a total of 208 proposals submitted to the Phase 1 Teaming for Excellence call.

2012 • Advancement to 2nd evaluation stage of European program IDEAS: Research proposal entitled *Geostatistical Population Disaggregation* (€$1,022,520$) advanced to the 2nd stage of evaluation (but was not selected for funding in the final evaluation) in the Advanced Grants competition of the program IDEAS administered by the European Research Council (ERC). The proposal was submitted to the Social Sciences & Humanities panel, and was the 1st Greek proposal to advance to the 2nd stage of evaluation for this panel since the commencement of the program in 2007.

2012 • National (Greek) competition in scientific research excellence "Aristeia": *Advances in Geostatistics for Environmental Characterization and Natural Resources Management* was selected for funding (€$250,000$) in the 1st Greek national competition in scientific research excellence, "Aristeia", administered by the Greek General Secretariat for Research and Technology. This proposal was one of the 206 proposals selected for funding out of a total of 1497 proposals submitted. It also was one of the 14 proposals (out of the 206 retained) that was funded as interdisciplinary – Primary disciplinary field: 01. Mathematics, Statistics, Informatics and Computer Science; Secondary disciplinary field: 10. Energy and the Environment.

Editorial Boards

2018- • *Cartographica*, Canadian Cartographic Association, University of Toronto Press, Member of Editorial Board

2012- • *Spatial Statistics*, Elsevier, Member of Editorial Board

2014-17 • *Geographical Analysis*, Wiley, **Associate Editor**

2007-17 • *International Journal of Geographical Information Science*, Taylor & Francis, Member of Editorial Board

Scientific Recognition

Editorials

2015 • *ISPRS International Journal of Geo-Information*: **Guest Editor** (with Stefanakis and Liu) for a special issue on "Advances in Spatio-Temporal Data Analysis and Mining"

2006-07 • *Encyclopedia of GIS*: **Field Editor** for the field of *Spatial Uncertainty and Imprecision* in the encyclopedia edited by S. Shekhar and H. Xiong, and published in 2007 by Springer

Scientific Committees & Panels

2005-06 • *UCGIS GI S&T Body of Knowledge*: **Advisory board member** for the Model Curriculum Project for Geographic Information Science & Technology, sponsored by the University Consortium for Geographic Information Science (UCGIS)

• *NSF Geography & Regional Science DDRI panelist*: **Panel member** for the Doctoral Dissertation Research Improvement grants awarded by the Geography & Regional Science Program of the National Science Foundation (NSF)

Offices in Scientific Organizations

2018- • Board member of AGILE, the Association of Geographic Information Laboratories in Europe

2015-16 • Board member of HellasGIS, the Hellenic Geographic Information Systems Society

2004-07 • Board member of the Spatial Analysis and Modeling (SAM) specialty group of the Association of American Geographers (AAG)

Invited Visits

2018 • Networking visit (December 8-10) to the School of Geography and Planning of Sun Yat-sen University, Guangzhou, China, to attend the "Global Network of Geography Education and Research Workshop", hosted by the School's Dean, Prof. Desheng Xue

2014 • Visiting Scholar (June 09-16) to the Department of Geography of the University of Southampton, UK, under the auspices of the Erasmus Mundus MSc Program "Geo-Information Science for Environmental Modelling and Management", hosted by Prof. Peter Atkinson

Post-Doctoral Researchers

2013 • Dr. Dimitris Kavroudakis Geographer, PhD University of Sheffield, UK. Funding source: Greek General Secretariat of Research and Technology.

2008 • Dr. No-Wook Park: Senior researcher from the (South) Korea Institute of Geoscience and Mineral Resources (KIGAM). Funding source: Fellow of the (South) Korea Research Foundation from January 2008 through August 2008. Current affiliation: Assistant Professor, Department of Geomatics Engineering, Inha University, South Korea.

Teaching

CUT Catalog Courses

GEO 563 • *Advanced GIS Applications*, course coordinator, MSc-level, 6 units. Components of Geographic Information Systems (GIS) – user needs, provision of information, decision support systems, infrastructure, legal framework. Applications in GIS. Database organization and selection of a GIS depending upon a specific application. GIS applications in Cyprus. GIS applications in various fields : Environment, water quality, air pollution, agriculture, geology, blue growth, social policy, urban planning, land register, coastal, project management, road - management and road works, telecommunications, archeology, cultural heritage, etc.. Modern methods of acquiring and analyzing geospatial data.

GEO 554 • *Spatial Analysis and Geostatistics*, MSc-level, 6 units. Geospatial data types and spatial analysis objectives for each type. Elements of descriptive statistics and their application in spatial analysis. Methods for the analysis of spatial distribution of point data. Analysis of spatial distribution of linear features, graphs and networks, topology and accessibility, network analysis. Problems and models for spatial allocation/siting. Analysis of areal data, spatial differentiation indices, spatial auto-correlation. Geostatistics, spatial association, spatial regression, spatial interpolation. Categorical data and methods for analyzing their spatial distribution.

GEO 551 • *Geoinformatics and Geographical Information Systems*, course coordinator, MSc-level, 6 units. Theoretical framework of Geoinformatics. Application areas, computer/information systems, and their architecture. Spatial and temporal notions in spatial information. Sources of spatial and descriptive data. Data acquisition from maps. Geospatial data acquisition from geodetic, photogrammetric and remotely-sensed sources. Object and field data models in spatial information. Data bases and their structure. Spatial decision support systems. Commercial and open-source geographic information systems.

GEO 333 • *Geography and Spatial Analysis*, BSc-level, 4 units. Analysis of natural and anthropogenic phenomena in space using geographical methods and techniques. Lectures and computer labs on diverse topics in spatial analysis, including: Population distribution, questionnaire development, analysis of spatial dispersion, analysis of spatial point patterns, continuous fields, areal data, network analysis, statistical regression analysis, location-allocation models.

GEO 214 • *Principles of Geoinformatics and Geographical Information Systems*, BSc-level, 4 units. Introduction to the theory of geoinformatics. Basic principles of geoinformatics: Theoretical basis, historical evolution, concepts of space and time, representation of geographical knowledge, representation models of space, implementation of geographical concepts and models in Geographical Information Systems (GIS), geospatial data sources and acquisition technologies. Object-based data models and models of continuous fields. Elements of spatial data bases. Methods of data linking/integration. Elements of spatial analysis and of geo-visualization.

Teaching

University of the Aegean Catalog Courses

Geo-A-101 • *Spatial Analysis*, MSc-level, compulsory, 5 units. Spatial statistics for the analysis of geospatial data. Advanced methods and techniques for the analysis of spatial point patterns, the analysis of measurements from geographical variables with a continuous spatial distribution (fields), and analysis of lattice (areal) geographical data, and spatial networks. Use of specialized software for employing advanced methods of spatial statistics, and their practical application for the analysis of spatial data from physical and human geography

Geo-A-255 • *Health-related Applications of Spatial Analysis*, MSc-level, elective, 3 units. Methods and techniques of spatial statistics for the analysis of public health data, including but not limited to disease mapping, cluster detection, spatial variation in disease risk, geostatistical mapping of environmental variables, ecological correlation, and exposure assessment.

Geo-301 • *Spatial Statistics*, BSc-level, compulsory, 5 units. Introduction to the basic principles of spatial statistics pertaining to the analysis of geospatial data. Emphasis is given to the analysis of spatial point patterns, the analysis of measurements from geographical variables with a continuous spatial distribution, and the analysis of lattice (areal) geographical data. Use of specialized software for understanding basic methods of spatial statistics, and their practical application for the analysis of spatial data from physical and human geography

Geo-240 • *Multivariate Analysis*, BSc-level, elective, 3 units. Introduction to the basic principles of multivariate statistics for the analysis of geographical data. Emphasis is given to statistical sampling, correlation analysis, regression analysis, principal component analysis, clustering and classification. Use of statistical software for understanding basic methods of multivariate statistics, and its application to data analysis from physical and human geography.

UCSB Catalog Courses

Geog 279 • *Seminar in Geostatistics: Advanced Topics in Spatial Statistics*, Graduate-level, elective, 3 units. Research frontiers/application areas of geostatistics. Advanced modeling of spatial patterns. Stochastic simulation algorithms, Markov chain Monte Carlo methods, and Latin Hypercube sampling of spatial distributions. Extension to spatiotemporal problems and Bayesian data integration.

Geog 278 • *Practice of Geostatistical Modeling of Spatial Data*, Graduate-level, elective, 5 units. Practice of geostatistics on large environmental data sets using MATLAB. Methods for modeling spatial patterns, integrating spatial data across multiple spatial scales, and simulating complex spatial distributions.

Geog 210C • *Analytical Methods in Geography III*, Graduate-level, compulsory, 4 units. Overview of key concepts in spatial statistics, including measures of spatial association and models for spatial regression, point processes and random fields. Geostatistical methods for analysis and interpolating continuous and area (lattice) data.

Teaching

Geog 210B • *Analytical Methods in Geography II*, Graduate-level, compulsory, 4 units. Statistical principles and practice of analyzing geographical data. Topics include bivariate and multiple regression and other multivariate techniques. Emphasis on exploratory data analysis and graphical techniques.

Geog 172 • *Intermediate Geographical Data Analysis*, Undergraduate-level, compulsory, 5 units. Statistical analysis of geographical data. Topics include spatial autocorrelation, multiple regression in spatial context, and introductory methods for analyzing point, area (lattice), and continuous spatial data. Lab includes the use of statistical software for analyzing various spatial data types.

Invited Presentations at Short Courses

May 2017 • *Geostatistics: Oil and gas reserves estimation methods*, 3-day lectures given as part of a class in the MSc Program: Hydrocarbons Prospection and Exploitation, Aristotle University of Thessaloniki, Greece.

Oct 2017 • *Spatial Statistics*, 5-day course given as part of the MSc Program: Geoinformation in Environmental Management, Mediterranean Institute of Chania, Greece.

May 2016 • *Geostatistics: Oil and gas reserves estimation methods*, 3-day lectures given as part of a class in the MSc Program: Hydrocarbons Prospection and Exploitation, Aristotle University of Thessaloniki, Greece.

Oct 2016 • *Spatial Statistics*, 5-day course given as part of the MSc Program: Geoinformation in Environmental Management, Mediterranean Institute of Chania, Greece.

Aug 2015 • *Spatial Analysis Applications in Health*, in: *Nutrition and Biodiversity as Tools of Well-Being*, Summer School organized by the University of the Aegean, and held at Molyvos, Lesvos, Greece.

Jun 2012 • *(1) Geostatistical Downscaling Concepts, (2) Geostatistical Simulation and Spatial Uncertainty, (3) Space-Time Geostatistics*, in: *Statistical Analysis of Geospatial Data for Environmental Studies*, Summer School organized by the Mediterranean Agronomic Institute of Zaragoza and the International Center for Advanced Mediterranean Agronomic Studies (IAMZ-CIHEAM), and held at Zaragoza, Spain (three lectures during one of the fifteen days of the summer school)

Jul 2003 • *(1) Principles of Spatial Stochastic Simulation, (2) Geostatistical Space-Time Models, (3) Geostatistical Integration of Spatial Data*, in: *Spatio-Temporal Statistical Analysis of Multi-Platform Optical Ocean Color Observations*, Summer School organized by the School of Marine Sciences of the University of Maine (sponsored by the National Science Foundation initiative "Collaborations in Mathematical Geosciences"), and held at the Darling Marine Center, Walpole, Maine (three, 1-day, short courses)

Feb 2003 • *Geostatistics for Environmental Applications*, National Center for Ecological Analysis and Synthesis, Santa Barbara, California (1-day short course)

May 1998 • *Geostatistics Software Library*, Stanford Center for Reservoir Forecasting, Stanford, California (5-day short course with Prof. Journel)

May 1999 • *Geostatistics Software Library*, Stanford Center for Reservoir Forecasting, Stanford, California (5-day short course with Prof. Journel)

Teaching

Aug 1997 • *Introduction to Geostatistics*, National Center for Geographic Information and Analysis, Santa Barbara, California (3-day short course)

Graduate Student Committees

Ph.D. Committees

Chair of Committee (∗∗), Co-Chair of Committee (∗)

I. Maina • University of the Aegean, Department of Oceanography and Marine Biosciences (2019): *Exploiting Vessel Monitoring System (VMS) data for Fisheries Management*.

K. Mwenda* • UCSB Geography (2018): *Assessment of Spatial Relationships between Stunting and Malaria Incidence in Kenya*. Current employment: Assistant Professor of Population Studies (Research), Associate Director of Spatial Structures in the Social Sciences (S4), Brown University, U.S.A.

S. Salap-Ayca • SDSU-UCSB Joint Doctoral Program (2018): *Spatially Explicit Uncertainty and Sensitivity Analysis Methods for Land-Use Models*.

E. Savvidou • Department of Civil Engineering and Geomatics, Cyprus University of Technology (2018): *A Study of Alternative Hydrological Response Unit Configurations in the Context of GIS-based Distributed Hydrological Modeling*.

S. Liodakis** • Department of Geography, University of the Aegean (2017): *Computationally Efficient Geostatistical Simulation for Uncertainty Propagation in Models with Spatially Distributed Parameters*. Note: Kyriakidis was the Chair of this Ph.D. Committee until his resignation from the University of the Aegean.

D. Sifaki-Pistolla • Faculty of Medicine, University of Crete (2017): *Spatio-temporal Epidemiological Study of Lung Cancer in Crete from 2000 to 2013. Association with Demographic and Environmental Risk Factors* (in Greek).

J.-H. Lee • UCSB Department of Geography (2015): *Travel Behavior Dynamics in Space and Time*

A. Nisantzi • Cyprus University of Technology, Department of Civil Engineering and Geomatics (2015): *Study of the Atmosphere and Optical Properties of Aerosols with the Combined use of Remote Sensing and Lidar Techniques in the Easter Mediterranean Region*

Ch. Papoutsa • Cyprus University of Technology, Department of Civil Engineering and Geomatics (2015): *Integrated use of Field Spectroscopy and Satellite Remote Sensing for Monitoring Water Quality in Case-2 (Inland and Coastal) Water Bodies* (in Greek)

P. Palaiologou • University of the Aegean, Geography Department (2015): *Behavior Forecasting Design and Impact Assessment of Forest Fires Using Geoinformatics* (in Greek)

Laura Harrison • UCSB Department of Geography (2014): *Impacts of Climate Variability on Surface Energy and Water Budget in Sub-Saharan Africa*

Graduate Student Committees

S. Ravulaparthy	• UCSB Department of Geography (2013): *Spatial Perspectives in Business Establishment Behavioral Modeling: A Case-Study Analysis in Santa Barbara County*
Y. Yuan	• UCSB Department of Geography (2013): *Characterizing Human Mobility from Mobile Phone Usage*
O. Roussou	• University of the Aegean, Geography Department (2013): *Spatial Analysis of Fuel Distribution for Fire Management* (in Greek)
Papakonstantinou	• University of the Aegean, Geography Department (2011): *Geo-Visualization and Scale Issues: Scale Selection and Integration via the Development of Computational Methods and Geoinformatics* (in Greek)
Yupeng Li	• Department of Civil and Environmental Engineering, University of Alberta (2011): *Improved Facies Modeling with Multivariate Spatial Statistics*
Guofeng Cao*	• UCSB Geography (2011): *A Geostatistical Framework for Categorical Spatial Data Modeling*. Current employment: Assistant Professor, Department of Geosciences, Texas Tech University, U.S.A.
Kyle Cavanaugh	• UCSB Geography (2011): *Variability of Giant Kelp Forests in Southern California: A Remote Assessment of Kelp Biomass and the Drivers of Kelp Dynamics*
Seth Peterson	• UCSB Geography (2011): *Fire Risk in California*
Kris Kuzera	• Joint SDSU/UCSB Ph.D. Program (2011): *Climate and Climate Change and Infectious Disease Risk in Thailand: A Spatial Study of Dengue Hemorrhagic Fever Using GIS and Remotely-Sensed Imagery*
Yuki Hamada	• Joint SDSU/UCSB Ph.D. Program (2010): *Characterizing Conditions of California Sage Scrub Communities in Mediterranean Type Ecosystems Using Remote Sensing*
Linna Li	• UCSB Geography (2010): *Design of a Conceptual Framework and Approaches for Geo-Object Data Conflation*
Carl Legleiter	• UCSB Geography (2008): *Characterizing the Spatial Structure of River Morphology and Hydraulics: Remote Mapping and Geostatistical Modeling of Dynamic Fluvial Systems*
Ph. Schneider	• UCSB Geography (2008): *Modeling Spatial Patterns of Wildfire Susceptibility in Southern California: Applications of MODIS Remote Sensing Data and Mesoscale Numerical Weather Models*
Kerry Halligan	• UCSB Geography (2007): *Mapping Forest Canopy Fuels in Yellowstone National Park Using Lidar and Hyperspectral Data*
Jared Aldstadt	• Joint SDSU/UCSB Ph.D. Program (2007): *Spatial/Spatiotemporal Analysis of Dengue Virus Transmission and Aedes aegypti Abundance*
Mark Janikas	• Joint SDSU/UCSB Ph.D. Program (2006): *Comparative Regional Income Dynamics: Clustering, Scale, and Geocomputation*
Eun-Hye Yoo**	• UCSB Geography (2006): *A Geostatistical Framework for Downscaling Spatial Data*. Current Employment: Assistant Professor, Department of Geography, State University of New York (SUNY) at Buffalo
Matthew Clark	• UCSB Geography (2005): *An Assessment of Hyperspectral and Lidar Remote Sensing for the Monitoring of Tropical Rain Forest Trees*

Graduate Student Committees

Carlos Sousa Jr.
- UCSB Geography (2005): *Mapping and Spatiotemporal Characterization of Degraded Forests in the Brazilian Amazon Through Remote Sensing*

Rich. Middleton
- UCSB Geography (2005): *Geographical Distillation: Application of the p-Median, Traveling Salesman, and Regionalization Problems*

Gregory Husak
- UCSB Geography (2005): *Methods for the Statistical Evaluation of African Precipitation*

Nicholas Nagle*
- UCSB Geography (2005): *Continuous Field Statistical Methods for Spatial Analysis in the Social Sciences*. Current Employment: Assistant Professor, Department of Geography, University of Tennessee at Knoxville, USA

Mingjie Chen
- UCSB Bren School of Environmental Science and Management (2005): *Stochastic Multiphase Flow in Heterogeneous Porous Media*

Xiaohang Liu
- UCSB Geography (2003): *Estimation of the Spatial Distribution of Urban Population Using High Spatial Resolution Satellite Imagery*

Karen Holmes
- UCSB, Geography (2003): *Regional Effects of Deforestation on Soil Biogeochemistry in the Southwestern Amazon*

M.Sc./M.A. Committees

Chair of Committee (**)

N. Nikas**
- University of the Aegean, Department of Geography (2015): *Investigation of Probable Sea Routes of Metal Transport in the Aegean Sea during the First Half of the 2nd Millennium BC, using Geographical Information Systems and Numerical Weather Forecasting Models* (in Greek)

A. Davis
- UCSB Department of Geography (2015): *Investigating Place Attitudes in Santa Barbara, CA*

J.-H. Kim
- UCSB Department of Geography (2015): *Harvesting Geospatial Intelligence from Geotagged Social Media Data: A New Type of Early Warning System Against North Korea*

P. Karabasis**
- University of the Aegean, Department of Geography (2015): *Spatiotemporal Analysis of Vineyard Extent (and Corresponding Agricultural Production) as a Function of Biophysical and Climatic Factors in Greece* (in Greek)

K. Lagkou
- University of the Aegean, Department of Geography (2015): *Methods for Forest Ecosystems Management and Fire Danger using Geoinformatics* (in Greek)

S. Meerdink
- UCSB Department of Geography (2014): *Linking Seasonal Foliar Chemistry to VSWIR-TIR Spectroscopy Across California Ecosystems*

K. Mwenda**
- UCSB Department of Geography (2014): *Decision-Making Under Spatial Uncertainty in Downscaled Population Estimates: An Assessment of HIV Prevalence in Tanzania* (Co-chaired with David Lopez-Carr)

L. Katikas**
- University of the Aegean, Department of Geography (2014): *Simulation of Hydraulic Conductivity Random Fields with the Latin Hypercube Method, and its Evaluation Using Simulation of Flow and Mass Transport* (in Greek)

I. Polydoropoulos**
- University of the Aegean, Department of Geography (2014): *Spatial Analysis of Accessibility to Islands of the North and South Aegean* (in Greek)

Graduate Student Committees

B. Rastogi	• UCSB Department of Geogaphy (2013): *Characterizing Spatial and Temporal Patterns of Cloud Cover and Fog Inundation for the Northern Channel Islands of California*
S. Prentice	• UCSB Department of Geography (2013): *Soil-Landscape Modeling of Coastal California Hillslopes Using Terrestrial LIDAR*
Stergiopoulos**	• University of the Aegean, Department of Geography (2013): *Geostatistical Analysis of the Impact of Errors in Digital Terrain Models of Scale 1:5000 (HAGS) and ASTER on the Hydrologic Basin Response* (in Greek)
G. Limitsios**	• University of the Aegean, Department of Geography (2013): *Spatial Point Pattern Analysis in Archaeology: The Case of Archaeological Sites of Pediada Heraklion* (in Greek)
G. Daras	• University of the Aegean, Department of Geography (2012): *Analysis and Modeling of Terrace Distribution and Abandonment in Lesvos Island* (in Greek)
Giannakopoulos	• University of the Aegean, Department of Geography (2012): *Evaluation of the Primary Health Care System in Lesvos* (in Greek)
I. Maina**	• University of the Aegean, Department of Geography (2011): *The Use of Geographical Information Systems and Generalized Additive Models for the Prediction of Potential Spawning Fields of Anchovy and Sardinella* (in Greek)
E. Hatzi	• Aegean Geography (2011): *Landslide Phenomena in Lesvos Island (Greece): Manifestation, Human Interventions, Impacts Confrontation* (in Greek)
C. Ntegianni**	• Aegean Geography (2011): *Analysis of the Spatiotemporal Distribution of Sea Surface Temperature in the Aegean Archipelago Using Data from the MODIS Aqua Sensor* (in Greek)
Z. Kavakli**	• Aegean Geography (2011): *Contribution of Geostatistics to the Delineation of Eutrophication Zones* (in Greek)
M. Mihelakaki**	• Aegean Geography (2011): *Geostatistical Study of the Covariation of Chlorophyll and Sea Surface Temperature from Satellite Images* (in Greek)
S. Liodakis**	• Aegean Geography (2011): *The Contribution of Geostatistics to Estimating Fire Ignition and Spread Probability: The Case of Western Attica* (in Greek)
S. Lappas	• Aegean Geography (2011): *Extraction of Morphotectonic Characteristics via GIS: The Case of Lesvos* (in Greek)
H. Papazoglou	• Aegean Geography (2011): *Management and Restoration of the Amali Peninsula in Lesvos for Reducing Fire Danger via Geoinformatics* (in Greek)
P. Kypriotellis	• Aegean Geography (2011): *Operational Evaluation of the Web GIS "VIRTUAL FIRE" for Forest Fire Management in Lesvos* (in Greek)
K. Stefanidou**	• Aegean Geography (2011): *Uncertainty Propagation of Wind Measurements in Fire Behavior Simulations* (in Greek)
B. Rozakis	• Aegean Geography (2011): *Design and Development of a GeoInformation System for Supporting Real Estate Services* (in Greek)
Josh Bader	• UCSB Geography (2011): *Degree by Examination*

Graduate Student Committees

Marcio Sales**	• UCSB Geography (2010): *Estimating Interpolation Uncertainty of Forest Biomass Stocks and Carbon Emissions from Deforestation in the Brazilian Amazon Using Inventory Data and Geostatistics*. Current Employment: Statistics Analyst, Instituto do Homem e Meio Ambiente da Amazônia (IMAZON), Brazil
Diego Pedreros	• UCSB Geography (2009): *The Effects of El Niño in Agricultural Water Balance in Guatemala*
Keely Roth	• UCSB Geography (2009): *A Combined Lidar and Hyperspectral Remote Sensing Analysis for Mapping Forest Biomass*
Kathleen Rose	• UCSB Geography (2009): *Degree by Examination*
Nate Isbell	• UCSB Geography (2009): *Procedures to Identify "Low Hanging Fruit" Spoke-and-Hub Airline Routes Ripe for Conversion to Point-to-Point Operations*
Ben Holland**	• UCSB Geography (2006): *Developing Alternative Null Hypotheses for Testing the Significance of Global Indices of Spatial Association*. Current Employment: Geospatial Analyst, SPADAC Inc., McLean, Virginia
Kirk Goldsberry	• UCSB Geography (2004): *Stabilizing Rate of Change in Thematic Map Animations*
Mich. Robinson	• UCSB Geography (2004): *The Effects of Lake Hydrology and Bootstrapping of Reservoir Inflow on Reservoir Capacity*
Barry Hooper	• UCSB Geography (2003): *Spatial and Temporal Analysis of Controls on Soil Carbon Dioxide Flux at the Hillslope Scale in California Oak Savanna*
Nicholas Matzke	• UCSB Geography (2003): *Remote Sensing and Geostatistical Analysis of Anthropogenic Biomass Burning and Forest Degredation in Madagascar*
Nicholas Nagle	• UCSB Geography (2002): *A Point-based Regression Analysis of Industrial Location*

Service

At Cyprus University of Technology (CUT)

2017-	• Dean of the School of Engineering and Technology
2017-	• Chair of Disciplinary Committee for Academic and other Teaching Staff
2016-	• (co)Director of MSc Program in Geoinformatics and Geospatial Technologies
2016-17	• Chair of the Dept. of Civil Engineering and Geomatics

At the University of the Aegean

2011-12	• Faculty Representative of University Professors at the Senate of The University of the Aegean
2010-12	• Director of Graduate Studies Program in: *Geography and Applied GeoInformatics* (Dept. of Geography)
2011-12	• Strategic Research Committee (Dept. of Geography)
2011-12	• Internal Evaluation Committee (Dept. of Geography)

Service

2011 • Geoinformatics in the Social Sciences Faculty Recruitment Committee (Dept. of Geography)
2011 • Undergraduate Program Committee (Dept. of Geography)

At UCSB

Chair of Committee (∗∗)

2012-14 • Vice Chair (Dept. of Geography)
2012-14 • Graduate Advisor (Dept. of Geography)
2008-09 • Vice Chair (Dept. of Geography)
2008-09 • Graduate Advisor (Dept. of Geography)
2008 • Land Use Land Cover Change (LULCC) Faculty Recruitment Committee (Dept. of Geography)
2005-08 • Colloquium Committee** (Dept. of Geography)
2005-08 • Diversity Committee (Dept. of Geography)
2004-05 • Curriculum Committee (Dept. of Geography)
2002-08 • Alternate delegate of the Department of Geography and UCSB to the University Consortium for Geographic Information Science (UCGIS)
2002-04 • Computer Committee (Dept. of Geography)

Membership in Scientific Committees

2018 • *CAA-GR 2018: 3rd CAA-GR Conference: Spreading Excellence in Computer Applications for Archaeology and Cultural Heritage*, Limassol, Cyprus, June 19-20, 2018
2018 • *GIScience 2018: 10th International Conference on Geographic Information Science*, Melbourne, Australia, 28-31, August, 2018
2017 • *IAMG 2017: 18th Annual Conference of the International Association for Mathematical Geosciences*
2016 • *GIScience 2016: 9th International Conference on Geographic Information Science*
• *geoEnv 2014: 11th International Conference on Geostatistics for Environmental Applications*
2015 • *Spatial Statistics 2015: Emerging Patterns: 3rd Conference on Spatial Statistics*
• *1st Conference on Geographical Information Systems and Spatial Analysis in Agriculture and Environment*, Athens, Greece
2014 • *GIScience 2014: 8th International Conference on Geographic Information Science*
• *geoEnv 2014: 10th International Conference on Geostatistics for Environmental Applications*
2013 • *Spatial Statistics 2013: 2nd Conference on Spatial Statistics*
• *RSCy 2013: First International Conference on Remote Sensing and Geoinformation of the Environment*, Paphos, Cyprus
• *1st Conference on Spatial Analysis*, Harokopeion University, Athens, Greece
2012 • *GIScience 2012: 7th International Conference on Geographic Information Science*
• *geoEnv 2012: 9th International Conference on Geostatistics for Environmental Applications*
2011 • *ECQTG 2011: 17th European Colloquium on Theoretical and Quantitative Geography*
• *Spatial Statistics 2011 - Mapping Global Change: 1st Conference on Spatial Statistics*

Service

2010
- *GIScience 2010: 6th International Conference on Geographic Information Science*
- *Spatial Accuracy 2010: 9th International Symposium on Spatial Accuracy Assessment in Natural Resources and Environmental Sciences*

2009
- *IAMG 2009: 2009 Annual Conference of the International Association for Mathematical Geosciences*
- *StatGIS 2009: GeoInformatics for Environmental Surveillance Conference*
- *IGARSS 2009: 2009 IEEE International Geoscience and Remote Sensing Symposium*
- *ASCE/EWRI KSTAT-3 Standard:* Consultant to the ASCE/EWRI's Standards Committee for the development of a *Standard Guideline for the geostatistical estimation and block-averaging of homogeneous and isotropic saturated hydraulic conductivity*

2008
- *Spatial Accuracy 2008*: Member of Scientific and Organizing Committees for the *8th International Symposium on Spatial Accuracy Assessment in Natural Resources and Environmental Sciences*
- *IGARSS 2008: 2008 IEEE International Geoscience and Remote Sensing Symposium*
- *geoENV 2008: 7th European Conference on Geostatistics for Environmental Applications*

2006
- *geoENV 2006:* Member of Scientific and Organizing Committees for the *6th European Conference on Geostatistics for Environmental Applications*
- *Spatial Accuracy 2006: 7th International Symposium on Spatial Accuracy Assessment in Natural Resources and Environmental Sciences*

2004
- *Geostatistics Banff 2004: 7th International Geostatistics Congress*
- *geoENV V: 5th European Conference on Geostatistics for Environmental Applications*
- *Environmental Soil-Landscape Modeling*: Member of Scientific Committee for book edited by S. Grunwald, and published by CRC Press

2003
- *Geodynamics*: Member of Scientific Committee for book edited by P.M. Atkinson, G.M. Foody, S.E. Darby, and F. Wu, and published by CRC Press

1999
- *Assessment of Non-Point Source Pollution in the Vadose Zone*: Member of Scientific Committee for book edited by D.L. Corwin, K. Loague, and T.R. Ellsworth, and published by AGU Press

1998
- *geoENV II: 2nd European Conference on Geostatistics for Environmental Applications*

Reviewer

Peer-reviewer for scientific journals

- International Journal of Geographical Information Science, IEEE Transactions on Geoscience and Remote Sensing, Computers & Geosciences, Geographical Analysis, Spatial Statistics, International Journal of Climatology, Journal of Applied Remote Sensing, Advances in Meteorology, Environment and Planning B, Transportation Letters, Southern African Institute of Mining and Metallurgy, Environmental Science and Pollution Research, Mathematical Geosciences, Remote Sensing of Environment, Stochastic Environmental Research and Risk Assessment, International Journal of Remote Sensing, Computers Environment and Urban Systems, Water Resources Research, International Journal of Applied Earth Observation and Geoinformation, Cartography and Geographic Information Science, Journal of Geographical Systems, European Journal of Soil Science, Transactions in GIS, Chaos - Solitrons & Fractals, Canadian Journal of Forest Research, European Journal of Soil Science, IEEE Geoscience and Remote Sensing Letters, Ecology, Geography Compass, Journal of the American Water Resources Association, Journal of Hydrology, Journal of Hydrologic Engineering, Professional Geographer, Mathematical Geology, Photogrammetric Engineering and Remote Sensing, Annals of the Association of American Geographers, Environmental Science & Technology, Atmospheric Environment, Journal of Environmental Management, Society of Petroleum Engineers Journal, Computational Statistics & Data Analysis, Environmental and Ecological Statistics, Journal of Hydrometeorology, UNESCO Encyclopedia of Life Support Systems, Ecological Applications

Reviewer for funding agencies

- Swiss National Science Foundation, Austrian Science Fund, Kuwait Foundation for the Advancement of Sciences, US National Science Foundation, National Commission of Scientific Research of Chile, American Chemical Society

Personnel Reviewer – External Evaluator

2018 • Mar. 2018: Evaluation of Dr. Gregoire Mariethoz for promotion to tenure (Stabilization) at the University of Lausanne, Switzerland

2015 • Apr. 2015: Evaluation of Dr. Reinhard Furrer for promotion to tenured Associate Professor (Extraordinarius) at the Institute of Mathematics, University of Zurich, Switzerland

2013 • Nov. 2013: Evaluation of Dr. Thomas Hansen (along with two other candidates) for promotion to Associate Professor in Computational Geoscience at the National Space Institute, Technical University of Denmark

• Sept. 2013: Evaluation of Dr. Stefan Leyk for promotion to Associate Professor in GI-Science, Department of Geography, University of Colorado Boulder

Membership in Professional Organizations

- Computer Applications and Quantitative Methods in Archaeology (CAA)
- Hellenic Society for Geographical Information Systems (Hellas GIS)
- Association of American Geographers (AAG)
- American Geophysical Union (AGU)

Membership in Professional Organizations

- International Association for Mathematical Geosciences (IAMG)
- Geotechnical Chamber of Greece