

Curriculum Vitæ

Informazioni personali

Nome LEMENKOVA Polina
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Cittadinanza RUS
Data di nascita 13/09/1980

Titoli di studio

Data di conseguimento 11/07/2011
Titolo conseguito Master
Voto conseguito buono
Titolo della Tesi School of Geography. Modules: GIS for Environmental Modelling; Core Skills in GIS & remote sensing; Calibration & Validation of Earth Observation Data; Risk Assessment; Physical Geography in Environmental Management.
Nome e indirizzo istituzione University of Southampton - - Southampton

Data di conseguimento 11/03/2011
Titolo conseguito Master
Voto conseguito buono
Titolo della Tesi Seagrass mapping and monitoring along the coasts of Crete, Greece
Nome e indirizzo istituzione University of Twente - - Twente

Data di conseguimento 07/06/2010
Titolo conseguito Master
Voto conseguito 07/06/2010
Titolo della Tesi Summer fieldwork as a part of MSc Erasmus program (07/06/2010-27/07/2010). Modules: Environmental Management and Policy in Central Europe.
Nome e indirizzo istituzione University of Warsaw - - Warsaw

Data di conseguimento 01/01/2010
Titolo conseguito Master
Voto conseguito 01/01/2010
Titolo della Tesi Erasmus winter semester in GIS Centre (01-06.2010). Modules: System Dynamics and Analysis; Advanced GIS and Remote Sensing; Distributed Environmental Modelling; Biodiversity.
Nome e indirizzo istituzione Lund University - - Lund

Data di conseguimento 22/06/2007
Titolo conseguito Diploma di scuola di specializzazione
Voto conseguito buono
Titolo della Tesi Using ArcGIS in Teaching Geoscience
Nome e indirizzo istituzione Lomonosov Moscow State University - - Mosca

Data di conseguimento 25/06/2004
Titolo conseguito Diploma universitario (vecchio ordin.)
Voto conseguito excellent; Summa Cum Laude
Nome e indirizzo istituzione Lomonosov Moscow State University - - Mosca

Esperienze

Periodo 01/04/2024 - oggi
Posizione Assegnista di ricerca
Nome e indirizzo istituzione Università degli Studi di BOLOGNA - Via Zamboni, 33 - BOLOGNA
Struttura Dip. L.240/2010 Scienze Biologiche, Geologiche e Ambientali

Periodo 01/09/2023 - 01/04/2024
Posizione Ricercatore presso Ente di ricerca
Qualifica Ricercatore
Nome e indirizzo istituzione Universität Salzburg - - Salzburg

Periodo 31/08/2021 - 31/08/2023
Posizione Ricercatore universitario a t.d.
Qualifica Ricercatore a t.d. - t.pieno (art. 24 c.3-a L. 240/10)
Tipo di attività svolta Bruxelles
Nome e indirizzo istituzione Université Libre de Bruxelles - ULB - - Bruxelles

Periodo 01/11/2020 - 01/11/2021
Posizione Ricercatore a t.d. presso Ente di ric.
Qualifica Ricercatore a tempo det.
Nome e indirizzo istituzione Russian Academy of Sciences - -

Periodo 01/09/2016 - 30/07/2020
Posizione Borsista
Nome e indirizzo istituzione Ocean University of China - - Qingdao

Periodo 01/09/2013 - 01/09/2015
Posizione Borsista
Tipo di attività svolta Charles

Nome e indirizzo istituzione	Charles University in Prague - - Prague
Periodo	01/03/2014 - 01/08/2014
Posizione	Ricercatore presso Ente di ricerca
Qualifica	Ricercatore
Nome e indirizzo istituzione	Czech Academy of Sciences - - Praga
Periodo	01/09/2011 - 01/09/2013
Posizione	Assegnista di ricerca
Nome e indirizzo istituzione	Technische Universitat Dresden - - Dresda
Periodo	01/04/2013 - 31/05/2013
Posizione	Visiting Researcher
Qualifica	Visiting Researcher
Tipo di attività svolta	National Taiwan University
Nome e indirizzo istituzione	National Taiwan University - - Taipei City
Periodo	01/11/2012 - 31/12/2012
Posizione	Borsista
Tipo di attività svolta	Ege
Nome e indirizzo istituzione	Ege University - - Izmir
Periodo	01/09/2012 - 31/10/2012
Posizione	Borsista
Nome e indirizzo istituzione	Université Libre de Bruxelles - ULB - - Bruxelles
Periodo	01/07/2012 - 31/08/2012
Posizione	Borsista
Tipo di attività svolta	Matej Bel
Nome e indirizzo istituzione	Univerzita Mateja Bela v Banskej Bystrici - - Banka Bystrica
Periodo	01/05/2012 - 30/06/2012
Posizione	Visiting Researcher
Qualifica	Visiting Researcher
Nome e indirizzo istituzione	University of Tartu - - Tartu
Periodo	01/01/2012 - 30/04/2012
Posizione	Borsista
Nome e indirizzo istituzione	Eötvös Loránd University - - Budapest
Periodo	01/07/2011 - 31/12/2011

Posizione	Borsista
Nome e indirizzo istituzione	University of Lapland - - Rovaniemi
Periodo	01/03/2011 - 30/06/2011
Posizione	Borsista
Nome e indirizzo istituzione	Universitaet Wien - - Vienna
Periodo	01/06/2009 - 31/08/2009
Posizione	Borsista
Nome e indirizzo istituzione	University of Eastern Finland - - Kuopio
Periodo	15/09/2008 - 15/06/2009
Posizione	Borsista
Nome e indirizzo istituzione	Universität Basel - - Basilea
Periodo	01/10/2007 - 31/03/2008
Posizione	Borsista
Tipo di attività svolta	AWI
Nome e indirizzo istituzione	Alfred Wegener Institute for Polar and Marine Research - -
Periodo	01/01/2006 - 01/06/2006
Posizione	Assegnista di ricerca
Nome e indirizzo istituzione	Alfred Wegener Institute for Polar and Marine Research - -
Periodo	01/09/2005 - 31/12/2005
Posizione	Assegnista di ricerca
Nome e indirizzo istituzione	Lomonosov Moscow State University - - Mosca
Periodo	01/06/2003 - 31/08/2003
Posizione	Assegnista di ricerca
Nome e indirizzo istituzione	JOANNEUM RESEARCH Forschungsgesellschaft mbH - - Graz

Elenco dei prodotti della ricerca

Lemenkova, Polina (2024). Artificial Neural Networks for Mapping Coastal Lagoon of Chilika Lake, India, Using Earth Observation Data. JOURNAL OF MARINE SCIENCE AND ENGINEERING, vol. 12, p. 1-29, ISSN: 2077-1312, doi: 10.3390/jmse12050709

Lemenkova, Polina (2024). Deep Learning Methods of Satellite

Image Processing for Monitoring of Flood Dynamics in the Ganges Delta, Bangladesh. *WATER*, vol. 16, p. 1-29, ISSN: 2073-4441, doi: 10.3390/w16081141

Lemenkova, Polina (2024). Random Forest Classifier Algorithm of Geographic Resources Analysis Support System Geographic Information System for Satellite Image Processing: Case Study of Bight of Sofala, Mozambique. *COASTS*, vol. 4, p. 127-149, ISSN: 2673-964X, doi: 10.3390/coasts4010008

Lemenkova P. (2023). A GRASS GIS Scripting Framework for Monitoring Changes in the Ephemeral Salt Lakes of Chotts Melrhir and Merouane, Algeria. *APPLIED SYSTEM INNOVATION*, vol. 6, p. 1-25, ISSN: 2571-5577, doi: 10.3390/asi6040061

Lemenkova P. (2023). Using open-source software GRASS GIS for analysis of the environmental patterns in Lake Chad, Central Africa. *DIE BODENKULTUR*, vol. 74, p. 49-64, ISSN: 0006-5471, doi: 10.2478/boku-2023-0005

Lemenkova P., De Plaen R., Lecocq T., Debeir O. (2023). Computer Vision Algorithms of DigitSeis for Building a Vectorised Dataset of Historical Seismograms from the Archive of Royal Observatory of Belgium. *SENSORS*, vol. 23, p. 1-34, ISSN: 1424-8220, doi: 10.3390/s23010056

Lemenkova P., Debeir O. (2023). Coherence of Bangui Magnetic Anomaly with Topographic and Gravity Contrasts across Central African Republic. *MINERALS*, vol. 13, p. 1-26, ISSN: 2075-163X, doi: 10.3390/min13050604

Lemenkova P., Debeir O. (2023). Computing Vegetation Indices from the Satellite Images Using GRASS GIS Scripts for Monitoring Mangrove Forests in the Coastal Landscapes of Niger Delta, Nigeria. *JOURNAL OF MARINE SCIENCE AND ENGINEERING*, vol. 11, p. 1-32, ISSN: 2077-1312, doi: 10.3390/jmse11040871

Lemenkova P., Debeir O. (2023). Correlations between the Topography-Induced Gravity, Terrain Structure and the Seismicity in the Gulf of Panama. *APLINKOS TYRIMAI, INZINERIJA IR VADYBA*, vol. 79, p. 64-76, ISSN: 1392-1649, doi: 10.5755/j01.arem.79.2.33500

Lemenkova P., Debeir O. (2023). GDAL and PROJ Libraries Integrated with GRASS GIS for Terrain Modelling of the Georeferenced Raster Image. *TECHNOLOGIES*, vol. 11, p. 1-22, ISSN: 2227-7080, doi: 10.3390/technologies11020046

Lemenkova P., Debeir O. (2023). Multispectral Satellite Image Analysis for Computing Vegetation Indices by R in the Khartoum Region of Sudan, Northeast Africa. *JOURNAL OF IMAGING*, vol. 9, p. 1-30, ISSN: 2313-433X, doi: 10.3390/jimaging9050098

Lemenkova P., Debeir O. (2023). Quantitative Morphometric 3D Terrain Analysis of Japan Using Scripts of GMT and R. *LAND*, vol. 12, p. 1-29, ISSN: 2073-445X, doi: 10.3390/land12010261

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Lindh P., Lemenkova P. (2023). Behaviour of Moraine Soils Stabilised with OPC, GGBFS and Hydrated Lime. *ARCHIVES OF MINING SCIENCES*, vol. 68, p. 319-334, ISSN: 0860-7001, doi: 10.24425/ams.2023.146182

Lindh P., Lemenkova P. (2023). Effects of Water—Binder Ratio on Strength and Seismic Behavior of Stabilized Soil from Kongshavn, Port of Oslo. *SUSTAINABILITY*, vol. 15, p. 1-27, ISSN: 2071-1050, doi: 10.3390/su151512016

Lindh P., Lemenkova P. (2023). Laboratory Experiments on Soil Stabilization to Enhance Strength Parameters for Road Pavement. *TRANSPORT AND TELECOMMUNICATION*, vol. 24, p. 73-82, ISSN: 1407-6179, doi: 10.2478/ttj-2023-0008

Lindh P., Lemenkova P. (2023). Optimized Workflow Framework in Construction Projects to Control the Environmental Properties of Soil. *ALGORITHMS*, vol. 16, p. 1-28, ISSN: 1999-4893, doi: 10.3390/a16060303

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Lindh P., Lemenkova P. (2023). Ultrasonic P- and S-Wave Reflection and CPT Soundings for Measuring Shear Strength in Soil Stabilized by Deep Lime/Cement Columns in Stockholm Norvik Port. *ARCHIVES OF ACOUSTICS*, vol. 48, p. 325-346, ISSN: 0137-5075, doi: 10.24425/aoa.2023.145243

Lindh P., Lemenkova P. (2023). Utilising Pareto efficiency and RSM to adjust binder content in clay stabilisation for Yttre Ringvägen, Malmö. *ACTA POLYTECHNICA*, vol. 63, p. 140-157, ISSN: 1805-2363, doi: 10.14311/AP.2023.63.0140

Lindh, Per, Lemenkova, Polina (2023). Geotechnical Properties of Soil Stabilized with Blended Binders for Sustainable Road Base

Applications. CONSTRUCTION MATERIALS, vol. 3, p. 110-126, ISSN: 2673-7108, doi: 10.3390/constrmater3010008

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Polina Lemenkova (2023). An automated algorithm of GRASS GIS to retrieve the data on land cover types in Guinea, West Africa, from Landsat-8 OLI/TIRS images. "OVIDIUS" UNIVERSITY ANNALS. SERIES CIVIL ENGINEERING, vol. 25, p. 19-36, ISSN: 2392-6139, doi: 10.5281/zenodo.10673287

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Lemenkova P. (2022). Command-Line Cartographic Data Processing for Geophysical Plotting of Rwanda Using GMT and R Scripts. ROMANIAN JOURNAL OF PHYSICS, vol. 67, p. 1-21, ISSN: 1221-146X, doi: 10.5281/zenodo.7113414

Lemenkova P. (2022). Console-Based Mapping of Mongolia Using GMT Cartographic Scripting Toolset for Processing TerraClimate Data. GEOSCIENCES, vol. 12, p. 1-36, ISSN: 2076-3263, doi: 10.3390/geosciences12030140

Lemenkova P. (2022). Evapotranspiration, vapour pressure and climatic water deficit in Ethiopia mapped using GMT and TerraClimate dataset. JOURNAL OF WATER AND LAND DEVELOPMENT, vol. 54, p. 201-209, ISSN: 2083-4535, doi: 10.24425/jwld.2022.141573

Lemenkova P. (2022). GRASS GIS Scripts for Satellite Image Analysis by Raster Calculations Using Modules r.mapcalc, d.rgb, r.slope.aspect. TEHNICKI VJESNIK - STROJARSKI FAKULTET, vol. 29, p. 1956-1963, ISSN: 1330-3651, doi: 10.17559/TV-20220322091846

Lemenkova P. (2022). Handling Dataset with Geophysical and Geological Variables on the Bolivian Andes by the GMT Scripts. DATA, vol. 7, p. 1-18, ISSN: 2306-5729, doi: 10.3390/data7060074

Lemenkova P. (2022). Mapping Climate Parameters over the Territory of Botswana Using GMT and Gridded Surface Data from TerraClimate. ISPRS INTERNATIONAL JOURNAL OF GEO-INFORMATION, vol. 11, p. 1-25, ISSN: 2220-9964, doi: 10.3390/ijgi11090473

Lemenkova P. (2022). Seismic moment tensor solutions for geophysical mapping of the Philippine sea basin by GMT. ROMANIAN REPORTS IN PHYSICS, vol. 74, p. 1-20, ISSN: 1221-1451, doi: 10.5281/zenodo.7064200

Lemenkova P. (2022). Seismicity in the Afar Depression and Great Rift Valley, Ethiopia. APLINKOS TYRIMAI, INZINERIJA IR VADYBA, vol. 78, p. 83-96, ISSN: 1392-1649, doi: 10.5755/j01.arem.78.1.29963

Lemenkova P. (2022). Tanzania Craton, Serengeti Plain and Eastern Rift Valley: mapping of geospatial data by scripting

techniques. ESTONIAN JOURNAL OF EARTH SCIENCES, vol. 71, p. 61-79, ISSN: 1736-4728, doi: 10.3176/earth.2022.05

Lemenkova P., Debeir O. (2022). R Libraries for Remote Sensing Data Classification by K-Means Clustering and NDVI Computation in Congo River Basin, DRC. APPLIED SCIENCES, vol. 12, p. 1-26, ISSN: 2076-3417, doi: 10.3390/app122412554

Lemenkova P., Debeir O. (2022). Satellite Image Processing by Python and R Using Landsat 9 OLI/TIRS and SRTM DEM Data on Côte d'Ivoire, West Africa. JOURNAL OF IMAGING, vol. 8, p. 1-33, ISSN: 2313-433X, doi: 10.3390/jimaging8120317

Lemenkova P., Debeir O. (2022). Seismotectonics of Shallow-Focus Earthquakes in Venezuela with Links to Gravity Anomalies and Geologic Heterogeneity Mapped by a GMT Scripting Language. SUSTAINABILITY, vol. 14, p. 1-21, ISSN: 2071-1050, doi: 10.3390/su142315966

Lemenkova, Polina (2022). Análise qualitativa de anomalias geofísicas e sismicidade no México: um mapeamento integrado por GMT. BOLETIM DE GEOGRAFIA, vol. 39, p. 265-287, ISSN: 0102-5198, doi: 10.4025/bolgeogr.v39.a2021.e60474

Lemenkova, Polina (2022). Cartographic scripting for geophysical mapping of Malawi Rift Zone. TEHNIKA, vol. 77, p. 183-191, ISSN: 0040-2176, doi: 10.5937/tehnika22021831

Lemenkova, Polina (2022). Geomorphology of the Beqaa Valley, Lebanon and Anti-Lebanon Mountains. ACTA SCIENTIFICA NATURALIS, vol. 9, p. 1-22, ISSN: 2367-5144, doi: 10.2478/asn-2022-0002

Lemenkova, Polina, Debeir, O. (2022). Satellite Altimetry and Gravimetry Data for Mapping Marine Geodetic and Geophysical Setting of the Seychelles and the Somali Sea, Indian Ocean. JOURNAL OF APPLIED ENGINEERING SCIENCES, vol. 12, p. 191-202, ISSN: 2284-7197, doi: 10.2478/jaes-2022-0026

Lindh P., Lemenkova P. (2022). Geochemical tests to study the effects of cement ratio on potassium and TBT leaching and the pH of the marine sediments from the Kattegat Strait, Port of Gothenburg, Sweden. BALTICA, vol. 35, p. 47-59, ISSN: 0067-3064, doi: 10.5200/baltica.2022.1.4

Lindh P., Lemenkova P. (2022). Impact of Strength-Enhancing Admixtures on Stabilization of Expansive Soil by Addition of Alternative Binders. CIVIL AND ENVIRONMENTAL ENGINEERING, vol. 18, p. 726-735, ISSN: 1336-5835, doi: 10.2478/cee-2022-0067

Lindh P., Lemenkova P. (2022). Leaching of Heavy Metals from Contaminated Soil Stabilised by Portland Cement and Slag Bremen. ECOLOGICAL CHEMISTRY AND ENGINEERING. S, vol. 29, p. 537-552, ISSN: 1898-6196, doi: 10.2478/eces-2022-0039

Lindh P., Lemenkova P. (2022). Permeability, compressive strength and Proctor parameters of silts stabilised by Portland cement and ground granulated blast furnace slag (GGBFS). ARCHIWUM BUDOWY MASZYN, vol. 69, p. 667-692, ISSN: 0004-0738, doi: 10.24425/ame.2022.141522

Lindh P., Lemenkova P. (2022). Seismic velocity of P-waves to evaluate strength of stabilized soil for Svenska Cellulosa

- Aktiebolaget Biorefinery Östrand AB, Timrå. BULLETIN OF THE POLISH ACADEMY OF SCIENCES. TECHNICAL SCIENCES, vol. 70, p. 1-8, ISSN: 0239-7528, doi: 10.24425/bpasts.2022.141593
- Lindh P., Lemenkova P. (2022). Shear bond and compressive strength of clay stabilised with lime/cement jet grouting and deep mixing: A case of Norvik, Nynäshamn. NONLINEAR ENGINEERING, vol. 11, p. 693-710, ISSN: 2192-8010, doi: 10.1515/nleng-2022-0269
- Lindh P., Lemenkova P. (2022). Simplex Lattice Design and X-ray Diffraction for Analysis of Soil Structure: A Case of Cement-Stabilised Compacted Tills Reinforced with Steel Slag and Slaked Lime. ELECTRONICS, vol. 11, p. 1-17, ISSN: 2079-9292, doi: 10.3390/electronics11223726
- Lindh P., Lemenkova P. (2022). Soil contamination from heavy metals and persistent organic pollutants (PAH, PCB and HCB) in the coastal area of Västernorrland, Sweden. GOSPODARKA SUROWCAMI MINERALNYMI, vol. 38, p. 147-168, ISSN: 0860-0953, doi: 10.24425/gsm.2022.141662
- Lindh, Per, Lemenkova, Polina (2022). Dynamics of Strength Gain in Sandy Soil Stabilised with Mixed Binders Evaluated by Elastic P-Waves during Compressive Loading. MATERIALS, vol. 15, p. 1-25, ISSN: 1996-1944, doi: 10.3390/ma15217798
- Lindh, Per, Lemenkova, Polina (2022). Effects of GGBS and Fly Ash in Binders on Soil Stabilization for Road Construction. ROMANIAN JOURNAL OF TRANSPORT INFRASTRUCTURE, vol. 11, p. 1-13, ISSN: 2286-2218, doi: 10.2478/rjti-2022-0010
- Polina Lemenkova (2022). Data Fusion Strategy for Mapping Environment and Climate Variables of Brazil. TECNO-LÓGICA, vol. 26, p. 15-34, ISSN: 1982-6753, doi: 10.5281/zenodo.5965311
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- Polina Lemenkova (2022). Mapping Ghana by GMT and R scripting: advanced cartographic approaches to visualize correlations between the topography, climate and environmental setting. ADVANCES IN GEODESY AND GEOINFORMATION, vol. 71, p. 1-20, ISSN: 2720-7242, doi: 10.24425/gac.2022.141169
- Polina Lemenkova (2022). Robust Vegetation Detection Using RGB Colour Composites and Isoclust Classification of the Landsat TM Image. GEOMATICS, LANDMANAGEMENT AND LANDSCAPE, vol. 4, p. 147-167, ISSN: 2300-1496, doi: 10.5281/zenodo.6347500
- Raphael De Plaen, Thomas Lecocq, Polina Lemenkova, Olivier Debeir, Fabrice Arduin, Marine De Carlo (2022). Extracting Microseismic Ground Motion From Legacy Seismograms. In: Proceedings of 3ECEES. p. 3507-3513, ISBN: 978-973-100-533-1, Bucharest, Romania, 4 September 2022, doi: 10.5281/zenodo.7064711
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Lemenkova P. (2021). Gobi Altai, Khangai and Khentii Mountains mapped by a mixed-method cartographic approach for comparative geophysical analysis. MONGOLIAN GEOSCIENTIST, vol. 26, p. 62-79, ISSN: 2220-0622, doi: 10.5564/mgs.v26i52.1512

Lemenkova P. (2021). Submarine tectonic geomorphology of the Pliny and Hellenic Trenches reflecting geologic evolution of the southern Greece. RUDARSKO-GEOLOSKO-NAFTNI ZBORNIK, vol. 36, p. 33-48, ISSN: 0353-4529, doi: 10.17794/rgn.2021.4.4

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