ALEXANDROS KORKOVELOS

Geospatial data analyst, highly motivated by the great potential of remote sensing, big data & geospatial analysis in supporting innovation towards sustainable development. Interested in a role of data analyst through which I can use and further develop my technical and analytical skills to provide strategic advice and insights to complex problems.

PERSONAL INFO

Greek | Dec 8, 1989

email: alex.lari.kor@gmail.com | mobile: +46 735 84 36 13 | skype: alekor81289

LinkedIn: linkedIn: linkedin.com/in/alexandros-korkovelos-07931168 | GitHub: https://github.com/alekordESA

Address: 24 Residence Tower, N4 2NE, London, UK

EDUCATION

09/2015 – 11/2019 (exp.) KTH Royal Institute of Technology (S weden)

PhD candidate in Energy Systems Analysis

Research Focus: Energy modelling and systems' planning to support electrification activities in developing economies under the Sustainable Energy for All (SE4ALL) framework.

Main Courses: Energy System Economics, Modelling and Indicators for Sustainable Energy Development, Energy Data, Balances and Projections, Energy and Geopolitics, Spatial Data Analysis.

09/2013 - 08/2015 KTH Royal Institute of Technology (Sweden) & Universitat Politècnica de Catalunya (Spain)

Master of Science (MSc.) in Sustainable Energy Engineering

European Institute of Innovation & Technology (EIT KIC InnoEnergy) Scholarship 2013 - 2015

Master Thesis in Renetech AB, Stockholm Sweden: Energy modelling to support subnational sustainable planning in developing countries: The case of Kakamega County in Kenya.

Main courses: Energy Resources, Renewable Energy Technologies, Energy & Environment, Polygeneration, Economics and Energy Markets, Innovation & Entrepreneurship in Sustainable Energy Technology, Environomical Pathways for Sustainable Energy Conversion.

09/2007 - 07/2013 DUTH - Democritus University of Thrace - School of Engineering. N

DUTH - Democritus University of Thrace - School of Engineering, Xanthi Greece Diploma (MEng) in Industrial Engineering & Management GPA: 8.04/10.0

Major in Production optimization

Master Thesis: EcoReDesign of industrial product: Case of split unit air conditioner.

Main courses: Computer Programming, Data analysis, Operations Resource Management, Total Quality Management, Project Management, Marketing, Industrial Economics, Industrial Informatics.

WORK EXPERIENCE

09/2015 - present

Division of Energy Systems Analysis (dESA) at KTH, Stockholm, Sweden

Research Consultant

- Coordinate the development of the Global Electrification Platform (GEP): Client: The World Bank
- Coordinate and support the geospatial electrification analysis featuring at IEA's Energy Access Outlook 2019: Client: IEA
- Coordinate and support the development of the Open Source Spatial Electrification Toolkit (OnSSET) Client: UNDESA, SIDA, ABB, The World Bank
- Conduct the geospatial electrification analysis featuring at IEA's Energy Access Outlook 2017: Client: IEA
- Conduct geospatial electrification analyses for developing countries (44 countries in Sub-Saharan Africa, 10 countries in Latin America & 6 countries in South East Asia) Client: UNDP-UNDESA
- Develop and maintain a comprehensive geo-database of energy related data for developing countries Client: The World Bank
- Support educational and capacity building activities in developing countries organized by KTH dESA, UNDESA and The World Bank
- Coordinate (research) proposals: The World Bank, Africa Development Bank, UNDESA, IEA, ESA

Project Manager

- Energy planning for boosting agricultural productivity in Mozambique Client: The World Bank
- Electrification perspectives for Madagascar Client: The World Bank
- Rural electrification and energy infrastructure planning in Afghanistan Client: The World Bank

02/2015 - 11/2015

Renetech AB, Stockholm Sweden

Energy Consultant

• Coordinating the feasibility study for a small hydropower plant in Rucanzogera, Rwanda

- Provided GIS support to the elaboration of the geo-topological and hydrological assessment of the project
- Developed a socio-economic and environmental assessment for the project
- · Reviewed the legal and institutional framework for electrification processes in Rwanda

07/2012 - 12/2012

Xingyu Automotive Lighting Systems Co., Ltd, Changzhou, China

Junior Engineer - Apprenticeship on production planning processes

- Support procurement regulations and inventory management using MRP systems
- Setup a database (MS Access) for more effective information exchange between the involved departments
- Involvement in the implementation of Lean manufacturing processes through data mining

LANGUAGES

Native: Greek, Fluent: English, Basic: Swedish, Spanish

SOFTWARE SERVICES & PROGRAMMING

Competent: OnSSET, ArcGIS, MS Office, LEAP

Good: Python, QGIS, GitHub, ReadTheDocs/Sphinx, Anaconda, JupyterLab

AutoCad, LaTex, Linux OS

PUBLICATIONS

S.D.; Siyal S.; Arderne C.; Rogner H.; Bazillian M.; Howells M.; Beck assment of small-scale hydropower potential in Sub-Saharan Africa". Ils M.; Sahlberg A.; Khavari B.; "The role of Open Source data and clanning and the achievement of SDG 7". Scial Change - Korkovelos A.; Howells M.; Nerini F.; Bazillian M.; ective analysis of electrification with a focus on isolated and mini-grids". kovelos A.; Mentis D.; Siyal S.; Bazillian M.; Angelou N.; Howells wironment. Incorporating conflict related stresses in geospatial least-
cial Change - Korkovelos A.; Howells M.; Nerini F.; Bazillian M.; ective analysis of electrification with a focus on isolated and mini-grids". kovelos A.; Mentis D.; Siyal S.; Bazillian M.; Angelou N.; Howells
ective analysis of electrification with a focus on isolated and mini-grids". kovelos A.; Mentis D.; Siyal S.; Bazillian M.; Angelou N.; Howells
kovelos A.; Mentis D.; Siyal S.; Bazillian M.; Angelou N.; Howells
7, 45-49, Mentis D.; Siyal S.; Korkovelos A .; Howells M.; wind generated electricity cost in Africa - A GIS based analysis".
s 2017, 12, 8, Mentis D.; Howells M.; Rogner H.; Korkovelos A.; aliotis C.; Bazillian M.; De Roo A.; Tanvez Y.; Oudalov A.; lication of an open source, spatial electrification tool (OnSSET) on
2017. Moksnes N.; Korkovelos A. ; Mentis D.; Howells M.; a – linking spatial electrification analysis and medium to long term
88. Mentis D.: Sival S.: Korkovelos A.: Howells M.: chno-economic wind power potential in India using geographical
3, Mentis D.; Andersson M.; Howells M.; Rogner H.; Siyal S.; Broad O.; eospatial planning in energy access – A case study on Ethiopia".
8

WORKSHOPS - CONFERENCES - PRIZES

06/2019	Three-week workshop at OpTIMUS Summer School - Capacity building with the World Bank, DFID, UNDP, UNDESA and representatives of 11 countries, Trieste Italy.
06/2018	Four-week workshop at OpTIMUS Summer School - Capacity building with the World Bank and representatives of 15 countries, Trieste Italy.
02/2018	Training Workshop on OnSSET tool at Energy Modelling Platform for Africa (EMPA) - Capacity building with UNECA and representatives of 6 African countries, Addis Ababa Ethiopia.

07/2017	Training Workshop on OnSSET tool - Capacity building with the World Bank and representatives of the Government of Afghanistan, Dubai UAE.
05/2017	World Hvdropower Congress – Invitation to participate as panelist to the dialogue on the role of small (off-grid) hydropower in rural electrification & Awarded the prize of IHA Young Researcher for 2017, Addis Ababa Ethiopia.
04/2017	European Geosciences Union General Assembly – Nominated for the Outstanding Student Poster and Pico Award for 2017, Vienna Austria.
02/2017	Training Workshop on energy modelling - Capacity building with the World Bank and representatives of four South East Asian Countries, New Delhi India.
08/2016	Training Workshop – Capacity building of 30 officials from various African countries on Modelling tools and integrated approaches for sustainable development policies in partnership with UNDESA/DPAD and UNDP, Addis Ababa Ethiopia.
11/2015	International Workshop on Environment & Alternative Energy organized by NASA and ESA, ESAC Madrid Spain.

HOBBIES

 $Basketball,\, CrossFit, Travelling$