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 Date of Birth: December 8th, 1989
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EDUCATION

- 09/2015 – 05/2020 (exp.) **KTH Royal Institute of Technology (Sweden)**
 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**, 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 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 hydro power 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

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

IT SKILLS

Microsoft office:	Competent - Word, Excel, Visio, PowerPoint, Access
Engineering Software & Programming:	Competent – ArcGIS, QGIS (Geographic Information Systems) Competent – OnSSET, LEAP (Energy Systems Modelling) Good – Python, Osmosis (for Open Street Maps applications), Git Basic – PVSyst, RETscreen, HOMER, AWS, GEE, SNAP, Grass GIS & Linux OS

PUBLICATIONS

First Author

2018	Energies - Korkovelos A. ; Mentis D.; Siyal S.; Arderne C.; Rogner H.; Bazillian M.; Howells M.; Beck H.; De Roo A.; “A geospatial assessment of small-scale hydropower potential in Sub-Saharan Africa”.
2019	Energies - Korkovelos A. ; Howells M.; Sahlberg A.; Khavari B.; “The role of Open Source data and tools in geospatial electrification planning and the achievement of SDG 7”.
2020	Sustainability - Korkovelos A. ; Mentis D.; Siyal S.; Bazillian M.; Angelou N.; Howells M.; “Supporting Electrification Policy in Fragile States: A Conflict-Adjusted Geospatial Least Cost Approach for Afghanistan”.
Under Review	Environmental Research Communications - Korkovelos A. ; Howells M.; Nerini F.; Bazillian M.; Zerriffi H.; Rogner H.; “A retrospective analysis of electrification with a focus on isolated and mini-grids”.

Co-author

09/2017	Energy Strategy Reviews 2017, 17, 45-49 , Mentis D.; Siyal S.; Korkovelos A. ; Howells M.; “Estimating the spatially explicit wind generated electricity cost in Africa - A GIS based analysis”.
07/2017	Environmental Research Letters 2017, 12, 8 , Mentis D.; Howells M.; Rogner H.; Korkovelos A. ; Arderne C.; Zepeda E.; Siyal S.; Taliotis C.; Bazillian M.; De Roo A.; Tanvez Y.; Oudalov A.; “Lighting the World: the first application of an open source, spatial electrification tool (OnSSET) on Sub-Saharan Africa”.
07/2017	Environmental Research Letters 2017 , Moksnes N.; Korkovelos A. ; Mentis D.; Howells M.; “Electrification pathways for Kenya – linking spatial electrification analysis and medium to long term energy planning”.
11/2016	Renewable Energy 2016, 97, 77-88 , Mentis D.; Siyal S.; Korkovelos A. ; Howells M.; “A geospatial assessment of the techno-economic wind power potential in India using geographical restrictions”.
04/2016	Applied Geography 2016, 72, 1-13 , Mentis D.; Andersson M.; Howells M.; Rogner H.; Siyal S.; Broad O.; Korkovelos A. ; “The benefits of geospatial planning in energy access – A case study on Ethiopia”.

WORKSHOPS – CONFERENCES - PRIZES

06/2018	Four-week workshop at OpTIMUS Summer School - Capacity building with the World Bank and representatives of the Government 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 Hydropower 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

- Outdoor sports
- Programming
- Travelling