LUCAS VAN DER MEER

Geospatial Data Scientist

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SUMMARY

I am a Master of Science in Geospatial Technologies, specialized in spatial data science. I combine a strong background in mathematics and statistics, with practical knowledge of geospatial applications. My passion is to approach spatial, environmentally related problems from a technical, data-based point of view, such that I can add my share to a better living environment. In my daily work, this comes down to developing software using R, Python and SQL. The fields of application I work in range from big earth observation data cubes, in an academic setting, to sustainable transport planning, in a business setting.

EXPERIENCE

Research Assistant

University of Salzburg
Department of Geoinformatics

May 2019 – to date Salzburg, Austria

- Enabling efficient, structured querying of the first operational semantically enriched Earth Observation data cube: sen2cube.at.

Developer

Triply GmbH

May 2019 – to date Linz, Austria

- Solving vehicle routing problems to create automatically generated, data-based sustainable mobility concepts.

Junior GIS Specialist

University of Groningen Geoservice
Centre of Information Technology

September 2016 – August 2017 Groningen, The Netherlands

- Investigating the patterns of supply shortage of public bikes in The Netherlands, both over space and time. Results were published in Dutch newspapers.

Student Assistant Statistics

University of Groningen
Faculty of Spatial Sciences

November 2015 – January 2016 Groningen, The Netherlands

- Assisting students of the Statistics course at their computer practica, where they worked with statistical computations in SPSS.

Student Assistant Spatial Information Technology

University of Groningen
Faculty of Spatial Sciences

September 2015 – November 2015 Groningen, The Netherlands

- Assisting students of the Spatial Information Technology course at their computer practica, where they worked with analyzing spatial data in ArcGIS.

INTERESTS

Spatio-temporal data analysis
Spatial statistics, time series, and more

Earth observation
Processing satellite imagery

Spatial planning
Stimulating sustainable transport

Reproducible research
Such that everyone can benefit

TECHNICAL SKILLS

Programming

R
Python
PostgreSQL & PostGIS
Bash

GIS software

QGIS
ArcGIS
GRASS GIS

Other

Linux OS | FOSS | GDAL | Git | GitHub | Jira | Docker | GIMP | Markdown | Latex | OpenStreetMap | OSRM | Google OR Tools

LANGUAGES

Dutch
English
German
Swedish
French
Portuguese
Spanish

EDUCATION

MSc. in Geospatial Technologies

New University of Lisbon, Information Management School
University of Münster, Institute for Geoinformatics

September 2017 – March 2019 | Lisbon, Portugal & Münster, Germany

- Spatial data science in R, Python and PostGIS.
- Remote sensing.
- Geostatistics and spatial statistics.
- Machine Learning and data mining of geospatial big data.
- Geographic information science.
- Visualization of spatial data.
- Reference systems for geographic information.
- Project management and academic writing.
- For my master thesis, I created a spatio-temporal forecasting system for bike availability in dockless bike sharing systems, using time series forecasting methods. It was supervised by Prof. Dr. Edzer Pebesma. Grade: 20 out of 20.

Academic minor in Mathematics & Statistics

University of Groningen
Faculty of Science and Engineering, Faculty of Economics and Business

September 2015 – June 2016 | Groningen, The Netherlands

- Statistics and statistical reasoning.
- Probability theory.
- Calculus and linear algebra.

BSc. in Environmental and Infrastructure Planning

University of Groningen
Faculty of Spatial Sciences

September 2013 – June 2016 | Groningen, The Netherlands

- Spatial information technology.
- Urban planning, environmental planning and water planning.
- Physical geography and economic geography.
- Environmental engineering and resistance theory.
- Statistics.
- For my bachelor thesis, I investigated the change of the relative accessibility of peripheral regions in The Netherlands over time, using network analysis tools. It was supervised by Dr. Peter Groote. Grade: 9.5 out of 10.

PUBLICATIONS

Journal Articles

- Abad, Lorena and Lucas Van der Meer (2018). "Quantifying Bicycle Network Connectivity in Lisbon Using Open Data". In: *Information* 9.11, p. 14. ISSN: 2078-2489. DOI: 10.3390/info9110287.

DISTINCTIONS

Best Student Award
For the Master of Science in Geospatial Technologies, with a final grade of 19 out of 20.

ACTIVITIES

GeoMundus 2018

Conference organizer

December, 2018 | Lisbon

GSWV Tandje Hoger Board

Treasurer

2013 & 2014 | Groningen

HOBBIES

Cycling
At elite level for WV West Frisia.

Outdoor
Hiking, skiing, camping.