



Lucas van der Meer

GEOSPATIAL DATA SCIENTIST

Salzburg, Austria

✉ luukvandermeer@live.nl | [luukvdmeer](#) | [luuk-van-der-meer](#) | [LuukvanderMeer](#)

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.

Employment

Research Assistant

Salzburg, Austria

UNIVERSITY OF SALZBURG, DEPARTMENT OF GEOINFORMATICS

May 2019 — Present

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

Developer

Linz, Austria

TRIPLY, GMBH

May 2019 — Present

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

Junior GIS Specialist

Groningen, The Netherlands

UNIVERSITY OF GRONINGEN GEOSERVICE, CENTRE OF INFORMATION TECHNOLOGY

September 2016 — August 2017

- 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

Groningen, The Netherlands

UNIVERSITY OF GRONINGEN, FACULTY OF SPATIAL SCIENCES

November 2015 — January 2016

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

Student Assistant Spatial Information Technology

Groningen, The Netherlands

UNIVERSITY OF GRONINGEN, FACULTY OF SPATIAL SCIENCES

September 2015 — November 2015

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

Education

MSc. in Geospatial Technologies

Lisbon, Portugal & Muenster,
Germany

NEW UNIVERSITY OF LISBON, INFORMATION MANAGEMENT SCHOOL

2017 — 2019

UNIVERSITY OF MÜNSTER, INSTITUTE FOR GEOINFORMATICS

- 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

Groningen, The Netherlands

UNIVERSITY OF GRONINGEN, FACULTY OF SCIENCE AND ENGINEERING & FACULTY OF ECONOMICS AND BUSINESS

2015 — 2016

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

BSc. in Environmental and Infrastructure Planning

UNIVERSITY OF GRONINGEN, FACULTY OF SPATIAL SCIENCES

Groningen, The Netherlands

2013—2016

- 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

1. Abad, L., & Van der Meer, L. (2018). Quantifying Bicycle Network Connectivity in Lisbon Using Open Data. *Information*, 9(11), 14. <https://doi.org/10.3390/info9110287>

Skills

Programming Languages

PYTHON, R, SQL, BASH

GIS software

QGIS, ARCGIS, GRASS GIS, GDAL

Markup Languages

LATEX, MARKDOWN, RMARKDOWN

Version Control

GIT, GITHUB, GITLAB

Other

DOCKER, LINUX OS, JIRA, GIMP, OPENSTREETMAP, OSRM, GOOGLE OR TOOLS, YAML

Languages

Native

DUTCH

Fluent

ENGLISH

Advanced

GERMAN

Basic

SPANISH, SWEDISH, FRENCH

Software Development

sfnetworks

TIDY GEOSPATIAL NETWORKS IN R

- Author and Maintainer
- Released to CRAN
- Funded by the [R-Consortium](#)

R Package

March 2021

Best Student Award

FOR THE MASTER OF SCIENCE IN GEOSPATIAL TECHNOLOGIES, WITH A FINAL GRADE OF 19 OUT OF 20.

*New University of Lisbon, University
of Castellon, University of Muenster*

2019