Gevorg Yeghikyan

Urban Data Scientist

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Professional Summary

Holding a PhD in spatial data science, I study cities with the mathematical apparatus of data science, machine learning, and complex systems. I'm currently a postdoctoral scientist at the KDD Lab, a research group focusing on modelling urban mobility and socio-economic dynamics of cities. Working with urban planning firms, municipalities, UNDP, GIZ, and the World Bank, I also consult urban development, master planning, (E-) mobility, and transportation projects worldwide.

Work History

2020-12 - Current

Postdoctoral Scientist in Urban Data Science

Italian National Research Council, Pisa, Italy

I work on research problems focusing on urban mobility and socio-economic dynamics of cities with the mathematical apparatus of data science, whereby I consult both public and private clients by applying cutting edge scientific results to extract business value in the fields of real estate, urban mobility, and geospatial analytics.

2018-03 - 2020-11

Research Associate in Data Science

Knowledge Discovery and Data Mining Laboratory (KDD Lab), Pisa, Italy

As part of my PhD research, I was involved in developing geospatial data analysis methods and algorithms for modelling the connection between real estate, urban planning, and mobility.

2019-05 - 2019-08

Visiting Research Scholar

Bruno Kessler Foundation, Trento, Italy

As part of my PhD research, I spent a three-month

Skills

R, Python data science kit (geopandas, numpy, scikit-learn, pytorch, scipy)
●●●●● Excellent

QGIS + Python, ArcGIS Pro
●●●●● Excellent

Tableau, Microsoft Excel, PowerPoint
●●●●● Excellent

Adobe Photoshop, Illustrator
●●●●○ Very Good

PostgreSQL + PostGIS, Git
●●●●○ Very Good

Languages

English, German, Russian, Armenian
●●●●● Excellent

research period at FBK Trento, where I developed a graph neural network algorithm for predicting urban mobility flows.

2019-01 - 2019-05

Big Data for Urban Planning Consultant

Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) , Yerevan, Armenia

I have been involved as an external project consultant in the development of a concept paper and Terms of Reference for the "Big Data for urban planning" project with Grant Thornton Armenia commissioned by GIZ Armenia for the cities of Yerevan, Minsk and Tbilisi. In particular, my role has been the development of the concept paper focusing on the strategies of using urban big data for urban policy making, urban monitoring, and management.

2015-02 - 2015-08

Urban Planner and GIS Analyst

Format Elf Architekten, Töging am Inn, Germany

I worked on urban and architectural masterplans, GIS analyses, and feasibility studies.

2014-06 - 2015-02

Urban Planner and GIS Analyst

Ingenhoven Architects, Düsseldorf, Germany

I worked on large scale urban planning and design projects in Germany and abroad, conducting GIS analyses, feasibility studies, and drafting.

Education

2017-11 - 2020-10

Ph.D.: Data Science

Scuola Normale Superiore - Pisa, Italy

2015-10 - 2017-10

Master of Science: Urban Planning

Staatliche Hochschule Für Bildende Künste - Frankfurt Am Main, Germany

2010-09 - 2014-05

Bachelor of Science: Urban Planning

University Of Architecture And Construction - Yerevan, Armenia