



Gevorg Yeghikyan

Urban Data Scientist

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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 researcher at the Knowledge Discovery and Data Mining Lab (KDD Lab), a research group focusing on modeling urban mobility and socio-economic dynamics at the Italian National Research Council. 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.

EXPERIENCE

ISTI-CNR, Pisa, Italy

Dec 2020 - present

PostDoctoral researcher

I conduct research on **data science** methods for **urban planning and mobility**. My main focus are spatio-temporal statistical modelling of urban phenomena, operations research for optimal urban planning, and deep learning, particularly graph neural networks for urban mobility prediction.

KDD Lab, Pisa, Italy

Mar 2018 - Nov 2020

Research assistant

Within the context of my PhD research, I have been involved in developing **spatial data analysis** methods and algorithms for modelling the connection between urban mobility and urban socio-economic characteristics.

Bruno Kessler Foundation, Trento, Italy

May - Aug 2019

Visiting scholar

As part of my PhD research, I spent a three-month research period at FBK Trento, developing a **neural network** algorithm for predicting urban mobility flows.

GIZ, Germany

Jan - May 2019

Big Data for urban planning consultant

I have been involved as an external consultant in the development of a concept paper and Terms of Reference for the "**Big Data for urban planning**" project commissioned by GIZ Armenia for the cities of Yerevan, Minsk and Tbilisi.

Format Elf Architekten, Töging am Inn, Germany

Feb - Aug 2015

Urban and architectural planner

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

Ingenhoven Architects, Düsseldorf, Germany

June 2014 - Feb 2015

Urban planner

I worked on large scale urban planning and design projects in Germany and abroad.

EDUCATION

Scuola Normale Superiore, Pisa, Italy

Nov 2017 - Nov 2020

PhD in spatial data science

My PhD research focused on developing **data science methods and algorithms** for understanding how socio-economic

characteristics of urban locations are related to the mobility flows between them. The research concluded in a doctoral thesis (cum laude) and 6 publications in top journals and conferences in computer and data science.

Städelschule Architecture Class, Frankfurt am Main, Germany
Msc. in urban planning

Oct 2015 - Oct 2017

National University of Architecture and Construction, Yerevan, Armenia
Bsc. in architecture and urban planning

Sep 2010 - May 2014

- SKILLS

- R, Python data science kit (geopandas, numpy, scikit-learn, pytorch, scipy)
 - SQL, PostgreSQL + PostGIS
 - QGIS + Python, ArcGIS
 - Adobe Photoshop, Illustrator
 - PTV Vissim, AutoCAD, Rhino

LANGUAGES

English, Russian, Armenian (Full professional proficiency), **German, Italian** (Professional working proficiency), **French** (Limited working proficiency)