

# Why to choose **GEOINFORMATICS ENGINEERING?**

**Seminars of the Geoinformatics Engineering Master of Science**

## Program

### 16:00 Introduction

Giovanna Venuti – Chair of Geoinformatics engineering study program

Daniele Oxoli – Assistant professor at DICA PoliMI and GEOlab technical responsible

### 16:15 Mitigation of Carbon Footprint Associated to Urban Traffic: A Geospatial Prospective

Luca Pappalardo - senior researcher at the National Research Council of Italy (CNR) and Professor at Scuola Normale Superiore of Pisa

### 16:45 Exploring Spatio-Temporal Mobility Patterns within the City Structure

Riccardo Di Clemente - Director of the Complex Connection Lab an Associate Professor at Network Science Institute, Northeastern University London.

### 17:15 Q&A session

Moderators

**Giovanna Venuti** - Chair of Geoinformatics Engineering board

**Daniele Oxoli** - Assistant professor at DICA PoliMI and GEOlab technical responsible

**Emanuele Strano** - MindEarth

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# Luca Pappalardo

## Mitigation of Carbon Footprint Associated to Urban Traffic: A Geospatial Prospective

**Luca Pappalardo** is a senior researcher at the National Research Council of Italy (CNR) and professor at Scuola Normale Superiore of Pisa. Before joining CNR, Luca was a postdoc researcher at University of Pisa and at the Budapest University of Technology and Economics. Luca Pappalardo has been visiting professor at INRIA Saclay (France), CentraleSupélec (Paris, France), and Universidad del Desarrollo (Santiago de Chile), and several times visiting researcher at the Northeastern University of Boston (USA). With a degree in Computer Science, Luca started exploring massive datasets of human movements, publishing several papers on human mobility analysis and modelling, some of which became classics of the field. In a natural evolution of his research trajectory, Luca shifted focus to the pressing issue of urban congestion, pioneering efforts centered on designing innovative routing strategies that balance individual travel optimization with the collective well-being of a city. Luca is now broadening his scope to address the profound impact of AI on complex systems in realms like social media, conversational systems, online retail and, of course, urban environments. His overarching goal is to design next-generation algorithms that balance the individual needs of users with broader collective objectives using tools at the intersection of computer science, network science, and computational social science.

Moderators

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# Riccardo Di Clemente

## Exploring Spatio-Temporal Mobility Patterns within the City Structure

**Riccardo Di Clemente** is Director of the Complex Connection Lab and Associate Professor at Network Science Institute, Northeastern University London, Affiliated Researcher at ISI Foundation and Visiting Professor at Sony Computer Science Lab Paris. Riccardo obtained his undergraduate B.Sc. & M.Sc. degrees in physics at Sapienza University of Rome. He received his Ph.D. Europaeus in Economics (at IMTLucca, Italy with visiting Institution Institute of New Economic Thinking at University of Oxford) where he applied Complex Systems tools to Economics and Social system. Afterward, he completed his postdoctoral research at the department of Civil and Environmental Engineering department of Massachusetts Institute of Technology - MIT in Boston. He has been awarded the Newton International Fellowship of the Royal Society in applied mathematics; he was hosted by the Centre for Advance Spatial Analysis (CASA) at University College London UCL. Before joining Northeastern University London, Riccardo was a lecturer in Data Science at the Computer Science Department of the University of Exeter, where he became Alan Turing Fellow of The Alan Turing Institute for two years working on new data analytics tools for Urban Dynamics. Riccardo has been a consultant for the World Bank, he led projects in collaboration with companies and ONG (Bill & Melinda Gates Foundation, and Data2x) to develop fine-tuned data-driven solutions for policymaking in developing countries.

Moderators

**Giovanna Venuti** - Chair of Geoinformatics Engineering board

**Daniele Oxoli** - Assistant professor at DICA PoliMI and GEOlab technical responsible

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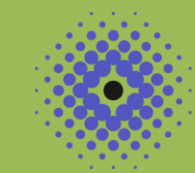
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