



PROFESSIONAL SCHOOL

# Urban Data Science Bootcamp

A crash-course on how the science of urban data can be applied to solve metropolitan issues



## Dates

### Milan

November 8th-9th

### Amsterdam

November 30th-December 1st

## Duration

2 days face-to-face sessions

## Why take this course?

Data is the catalyst needed to make the smart city vision a reality in a transparent and evidence-based (i.e. data-driven) manner. The skills required for data-driven urban analysis and design activities are diverse, and range from data collection (field work, crowdsensing, physical sensor processing, etc.); data processing by employing established big data technology frameworks; data exploration to find patterns and outliers in spatio-temporal data streams; and data visualization conveying the right information in the right manner.

## Main activities

The CrowdInsights professional school provides a no-frills, hands-on introduction to the science of urban data; from data creation, to data analysis, data visualization and sense-making, the bootcamp will introduce more than 10 real-world application uses cases that exemplifies how urban data can be applied to solve metropolitan issues. Attendees will explore the challenges and opportunities that come from the adoption of novel types of urban data source, including social media, mobile phone data, IoT networks, etc.

# Program

In this bootcamp we bring together speakers from international universities and research institutes to provide you an introduction to applied Urban Data Science.

## Day 1

Welcome & Kick-off

The Urban Data processing pipeline: an overview

Fundamental Concepts of Urban Data Science

- Urban Data sources
- Data science for urban data
- Machine learning

Use Cases

Hands-on Session 1 | Problem Identification and Requirement Analysis

## Day 2

Welcome Day 2

Crowdsourcing & Citizen Science

Advanced Urban Data Science Techniques

- Semantic Integration
- Spatial Analysis
- Multimedia content analysis

An Introduction to Data Visualisation & Exploration

Hands-on Session 2 | Design of Data-Driven Solutions

## Who should attend?

**Everyone interested in leveraging urban data to improve cities.**

We encourage the participation of Civil servants, Professionals, Students, Urban planners, and managers of city utilities and services. No previous experience in data science or computer science is required. Attendees should have experience in areas such as economic affairs, urban development, management support, strategy & innovation, health & care, public order & safety.

## Registration

The professional school will be delivered in two editions:



**Milan**  
November 8th-9th  
[In Italian]



**Amsterdam**  
November 30th-December 1st  
[In English]

Participation in the Urban Data Science bootcamp costs € 100 excl. VAT, but free seats are available for selected participants. This includes lunches and drinks. Participants receive a certificate as proof of participation. Ready for a next step in thinking and doing?

## Contacts

For more information and registrations, contact

### Italian Edition

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### Dutch Edition

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