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Master's Programme in Data Science

Matteo Magnani, programme coordinator

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Aims and profile

As a data scientist, you will learn to extract valuable insight from one of the most important resources today: data. Use the latest data engineering, machine learning and statistical methods to turn large amounts of information into big-picture knowledge.

You are someone with not only a theoretical foundation in mathematics and computer science, but also curiosity about how large and complex sets of data can be utilised to solve a variety of real-life problems.

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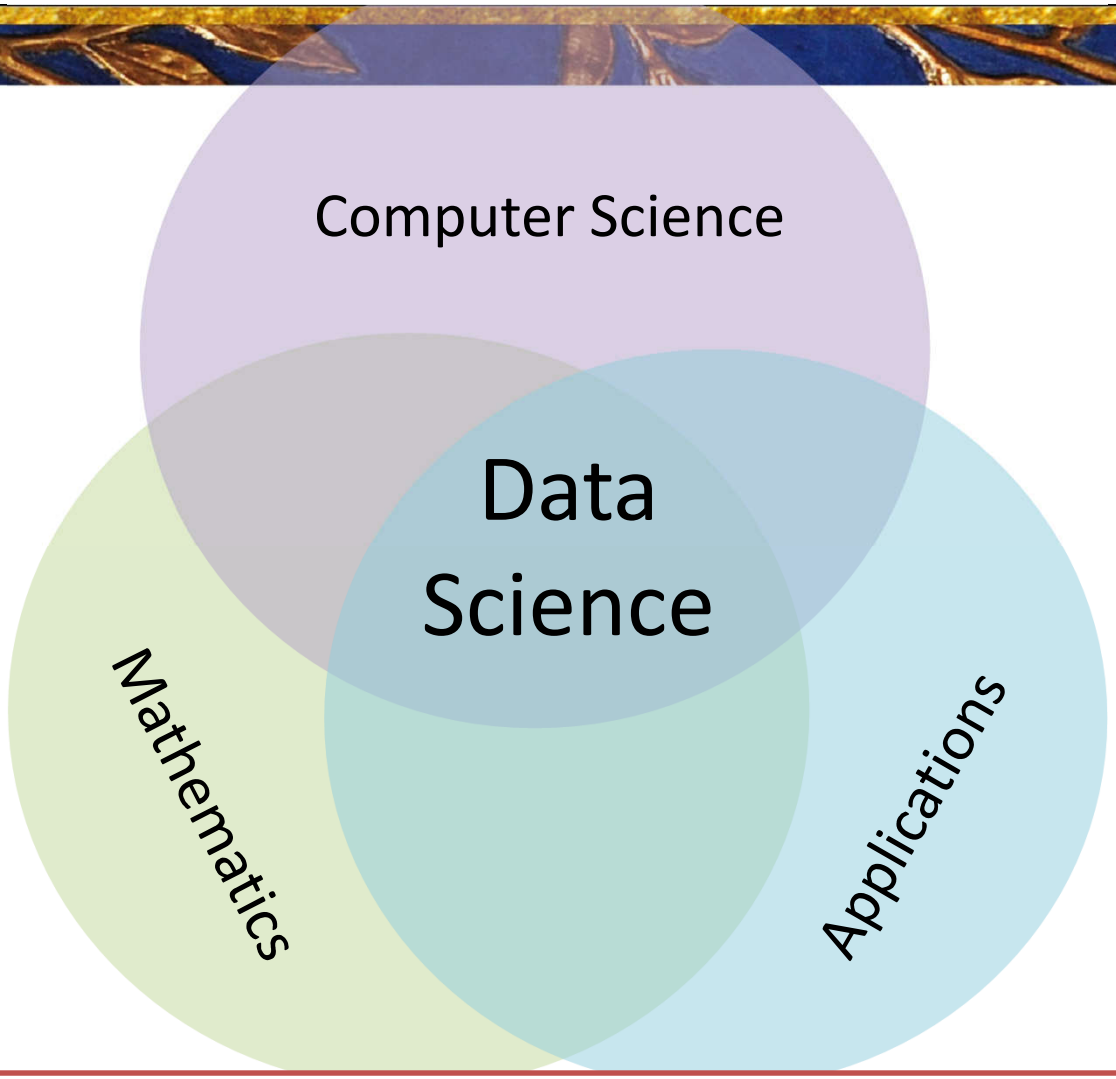

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Entry requirements

80c math & CS

25c Mathematics
(with Linear Algebra, Calculus)

5c Probability & Statistics

15c CS
(with Programming)

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Year 1, semester 1

Introduction to Data Science (10c)	
Data, ethics and law (5c)	Statistical machine learning (5c)
Custom courses (10c) (Math orientation) (CS orientation)	

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Year 1, semester 2 (Spring)

Period 3	Period 4
Core courses in Data Science (both specializations)	(DE track)
Data Engineering I (7.5c)	Data Engineering II (7.5c)
Theoretical foundations of data science (7.5c)	High-performance and parallel computing (7.5c)
Computer-intensive Statistics and Data Mining (7.5c)	(ML&S track)
Etc.	Reinforcement Learning (7.5c)
	Applied Linear Algebra for Data Science (7.5c)

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Year 2, semester 1

(DE track) Data Mining (7.5c) Accellerator-based Programming (7.5c) (ML&S track) Advanced probabilistic machine learning (7.5c) Theoretical statistics DS Etc.	Project in data science (15c) or (7.5c) Scientific visualization (7.5c) Security and privacy (7.5c)

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Year 2, semester 2

Master's thesis
(30c)