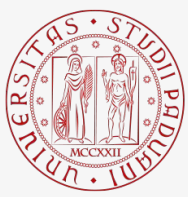
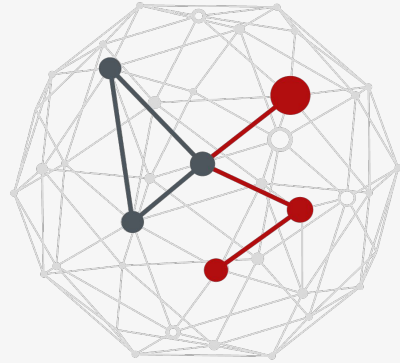


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UNIVERSITÀ
DEGLI STUDI
DI PADOVA

DIPARTIMENTO
MATEMATICA



DATA SCIENCE
UNIVERSITY OF PADOVA

Welcome to Data Science Master Degree

Master of Science in Data Science

Prof. Marco Ferrante - Head of Master Degree



Presentation

In 2016, the University of Padua established a 2 year Master's degree in Data Science. This has been possible thanks to a fruitful collaboration between

- Departments of Mathematics
- Department of Statistics
- Department of Information Engineering
- Department of General Psychology
- Department of Biomedical Sciences

and the

- Bruno Kessler Foundation in Trento.

The Master's degree in Data Science is **highly interdisciplinary**, and is fully taught in English by internationally established researchers.



Presentation

Since 2019 the Master in Data Science is structured according to **4 Curricula**. Starting from the basic tools of **probability theory**, **statistics** and **computer science**, which are common to all the curricula in the first semester, we provide the students with all the fundamental theories and tools that are required by a **Data Scientist** today, including **Machine Learning**, **Operational Research**, **Artificial Intelligence**, **Network Science** and **Big Data Computing**.

Besides, we offer a wide range of courses where the previous tools find a practical application, like **Biological Data**, Human, Cognitive and Social data, or **Economic and Financial data**.



Presentation

In the final **fourth semester** all the students have an opportunity to carry out an **internship** in a private company or in a research institution, to work on their Master thesis.



Presentation

Data Science Master Degree web page:

<https://datascience.math.unipd.it/>



Curricula

1. Mathematics of Data Science

<https://datascience.math.unipd.it/curriculum-mds.html>

2. Biological Data Analytics

<https://datascience.math.unipd.it/curriculum-bda.html>

3. Machine Learning for Intelligent Systems

<https://datascience.math.unipd.it/curriculum-mlis.html>

4. Cognitive, Social and Economic Data Analytics

<https://datascience.math.unipd.it/curriculum-cseda.html>



Foundations

MATHEMATICS

- STOC. METHODS
- OPTIMIZATION FOR DS

STATISTICS

- STATISTICAL LEARNING

COMPUTER SCIENCE

- FUND. OF INF. SYSTEMS
- MACHINE AND DEEP LEARNING

BIOLOGY, ECONOMICS, HUMAN & SOCIAL SCIENCES

- COGN. BEHAV. & SOCIAL DATA



Advanced Courses

MATHEMATICS

- HD PROBABILITY FOR DS
- MATHEMATICAL CELL BIO
- MATHEMATICAL MODELS AND NUM. METHODS 4 BIG DATA

STATISTICS

- STATISTICAL METHODS FOR HD DATA

COMPUTER SCIENCE

- HUMAN DATA ANALYTICS
- GAME THEORY
- NETWORK SCIENCE
- PROCESS MINING
- BIG DATA COMPUTING
- VISION AND COGNITIVE SERVICES
- KNOWLEDGE AND DATA MINING

BIOLOGY, ECONOMICS, HUMAN & SOCIAL SCIENCE

- BIOLOGICAL DATA
- OMICS IN HUMAN DISEASE
- BIOINFORMATICS
- INTRO MOL. BIOLOGY
- STRUCTURAL BIOINFORMATICS
- LAW AND DATA
- BUSINESS ECO. & FIN. DATA
- HUMAN COMPUTER INTERACTION



Internship – what is it?

- **Period of work at**
 - a company, industry, research centre, research lab.
- **When?**
 - Typically, carried out during the **second semester** of **second year**
- **For how long?**
 - **Six to eight** months
- **MS thesis?**
 - Yes, the internship and the **final MS thesis's** work are **often combined**



Career Opportunities

Internships:

<https://datascience.math.unipd.it/internships.html>



Some of our partners



MAX-PLANCK-GESELLSCHAFT



SISTEMA SANITARIO REGIONALE



**IRCCS
LAZZARO SPALLANZANI**



Wattics



ENGINEERING

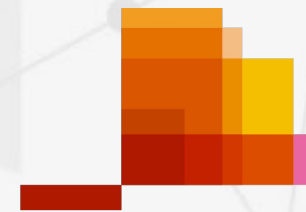


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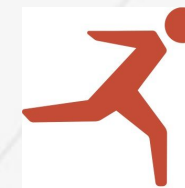
accenture



AzzurroDigitale
STRATEGY & VENTURES



pwc



REPLY
TECHNOLOGY



Torre Archimede

Opening hours

Monday to Friday, 8:00 AM to 7:00 PM.

Holidays, closing days arranged by the University or other opening hours reductions will be reported in the news of the Department website.

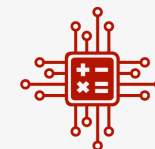
<https://www.math.unipd.it/en/department/buildings-and-facilities/>

University Library System:

<http://bibliotecamatematica.cab.unipd.it/>



Address: Via Trieste, 63 – 35121 Padova, Italy



Coronavirus - updates UniPD

Protocols and guidelines:

<https://www.unipd.it/coronavirus-updates>



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Classroom and Laboratories

<https://www.math.unipd.it/en/department/classrooms-and-laboratories/>



Moodle Math

<https://elearning.unipd.it/math/>

1. Find Data Science Master Degree
2. Enroll with your SSO
3. Find the course unit and enroll

Enroll in *Data Science Information Space*:

<https://elearning.unipd.it/math/course/view.php?id=659>



Lectures

During the first semester of this academic year:

- all the lectures will be **in person** and **online** (Zoom)
- all the laboratories will be **only in person**

The instructors usually post the videos of the lectures online on Moodle, but this is **not** compulsory.



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Lectures

Due to the COVID, we track the presence of the students.

It is necessary to register your attendance at each class using **OrariUniPD** app



<https://www.unipd.it/en/easybadge>



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Lectures

Lecture timetable

http://agendastudentiunipd.easystaff.it/index.php?view=easycourse&_lang=en

Search your timetable by degree

italiano english español

Download OrariUniPD app now!

From the first semester 2020-21 it's necessary to register your attendance at each class using OrariUniPD app. The app also allows you to view timetables and classrooms planning. For more information visit our website <https://www.unipd.it/orariunipd>

Coronavirus - Da agosto esami in presenza e online, da settembre didattica mista in presenza e online.

Per informazioni sulle attività telematiche è possibile fare riferimento alle Segreterie Didattiche e alle pagine Moodle. Per ulteriori comunicazioni si rinvia <https://www.unipd.it/coronavirus-didattica>

Lessons schedule » By degree

+ Mostra/nascondi parametri di ricerca

Academic year:

2021/2022

School:

Scuola di Scienze

Course of study:

SC2377 - DATA SCIENCE

Year of study:

1 anno - Data Science

Week of:

26-09-2021



View timetable



Exams and Study plan

Exam calendar

http://agendastudentiunipd.easystaff.it/index.php?view=easytest&_lang=en

Study plan

from **November 10 to December 1st** - online form will be available



Contacts

E-mail

datascience@math.unipd.it

Website

<https://datascience.math.unipd.it/index.html>

