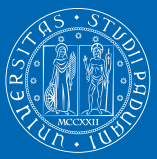
INSPIRING GLOBAL CHANGE SINCE 1222

SCHOOL OF SCIENCE

PHYSICS OF DATA

The Master's degree provides new theoretical and computational tools to tackle the explosion of datasets within the physicist mindset. It combines advanced knowledge in the field of Physics with a high-level training in Data Science. The programme thus trains the new generation of data physicists equipped with tools that will allow them to face the challenges that the digital revolution has brought in our society.



UNIVERSITÀ
DEGLI STUDI
DI PADOVA

PHYSICS OF DATA

LEVEL Master

SCHOOL Science

DEPARTMENT Physics and Astronomy

DURATION 2 years (120 ECTS)

START DATE October

LOCATION Padua, Italy

PROGRAMME COORDINATOR
Samir Simon Suweis

WEB
www.unipd.it/en/physics-data

APPLY.UNIPD.IT

62nd 2024
Phyics and Astronomy
QS WORLD UNIVERSITY RANKINGS
BY SUBJECT

ENTRY REQUIREMENTS

- Bachelor's degree (or equivalent), with proven skills in Physics and Mathematics
- English language: B2 level (CEFR) or equivalent

PROGRAMME STRUCTURE

1st Year: Laboratory of Computational Physics; Management and Analysis of Physics Datasets; Theoretical Physics; Machine Learning; Statistical Mechanics of Complex Systems; Advanced Statistics for Physics Analysis; elective courses on advanced topics in modern Physics.
2nd Year: Quantum Computing; elective courses on advanced topics in modern Physics and Engineering; Internship.

TUITION FEES AND SCHOLARSHIPS

Annual fees: up to € 2,900 (3 instalments)
Scholarships and fee-waivers for international students available: www.unipd.it/en/funding-and-fees

CAREER OPPORTUNITIES

Graduates master tools for collecting, managing and analysing big data, and for translating their work into highly valuable information. Graduates work as professionals in research centres, internet companies, consulting companies, startups and high tech industries and public administrations.