Science in Padova

The Institute of Physics and Astronomy is located near the city center in the Science University area. The Institute provide excellent modern study facilities with participation in international networks of excellence as well as in research and education projects, welcoming students and scholars from all over the world.

In the area you will find opportunity for recreation too in the trattorias, wine bars, sport centres and other student facilities.

Padova University

One of the oldest and most prestigious universities in Europe - established in 1222 - the University of Padova invests significantly in research activities and projects. The University has a glorious history and boasts among its scholars and professors Galileo Galilei, who taught in Padova from 1592 to 1610, and Elena L. Cornaro-Piscopia, the first ever woman to receive an academic degree from a university in 1678.

Master of Science Physics of Data

The Institute of Physics and Astronomy hosts a section of the Italian Institute for Nuclear Physics (INFN) and a unit of the Italian Interuniversity Consortium for the Physical Sciences of Matter (CNISM) and, in collaboration with the Paduan Astronomical Observatory of the Italian Institute for Astrophysics (INAF), the Department runs the Asiago Astrophysical Observatory, where a variety of instruments are available for research and student training.

Big Data analysis for Physics of Data

Are you a physics student who wants to develop the methods and techniques that are fundamental for Big Data analysis?

Do you want to be a data physicist to face the challenges that the digital revolution has brought in our society?

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Study programme

In the two years you will follow some core courses, such as Statistical Mechanics of Complex Systems, Management and analysis of physics datasets, Information Theory and Computation, Laboratory of Computational Physics and Machine Learning.

In the meanwhile you may choose between a broad range of elective courses to inspire your future, in topics like Network modelling, The physical universe, Statistical mechanics, Astro-statistics and cosmology, Computational NeuroScience, Big Data Ethics, Quantative Life Science, Digital Signal Processing, Game Theory and many others.

Full list of courses unipd.it/en/physics-data

Scholarships and fee-waivers

The University of Padova offers different types of scholarships and fee-waivers to international students. You may find a list of the funding opportunities going to unipd.it/en/funding-and-fees

Master’s project and Internship

An internship in a research center or private company is scheduled during your second year, to practice with physics and data science research on the field. At the end of the programme, guided by our world-leading scientists, you will develop your Master’s project, a milestone for your next step in or outside academia.

Career opportunities

Graduates will have jobs opportunity in: academic institutions, research centers, public administrations, internet companies, startups and high tech industries, consulting companies.

Information

For full list of courses, application procedures, deadlines, please visit unipd.it/en/physics-data

contact didattica.phyiscsofdata@unipd.it
alessandra.zorzi@unipd.it

Why Padova?

Padova, is a small and beautiful town, shaped around the University. Low living costs, great food, and you can bike everywhere!

Altea

“I’m a physicist interested in studying data analysis and hardware devices. I would like to know how new technologies can be applied in physics research. Moreover, nowadays many high tech industries are searching master’s students with competences in data science. Physics of Data allows me to follow both paths and to be competitive in the future”

Gaia

“I’m really interested to understand how to apply machine learning to big data analysis. The master study programme in Physics of data offers a multidisciplinary, research-oriented training, stressing both theoretical and experimental aspects.”