UNIVERSITÀ DEGLI STUDI DI TORINO

MASTER'S DEGREE
in STOCHASTICS
and DATA SCIENCE

A new two-year graduate course (Laurea Magistrale within the Italian University system) that aims at preparing students with a modern education in probabilistic, statistical and computational methods.

TOPICS

- Advanced data analysis
- Bayesian statistics
- Big data analytics and data mining
- Machine learning
- Parametric and nonparametric inference
- Probability theory
- Simulation and computation
- Stochastic processes

WHAT

A course that provides the quantitative background needed to tackle the complexity of today's challenges. Inspired by the best programs in Data Science recently started in the USA and Europe, it is currently the only offer of this type in Italy.

WHY

New technologies have boosted the availability of high-dimensional and complex data sets, and the demand for graduates with the appropriate mathematical skills is far from satisfied.
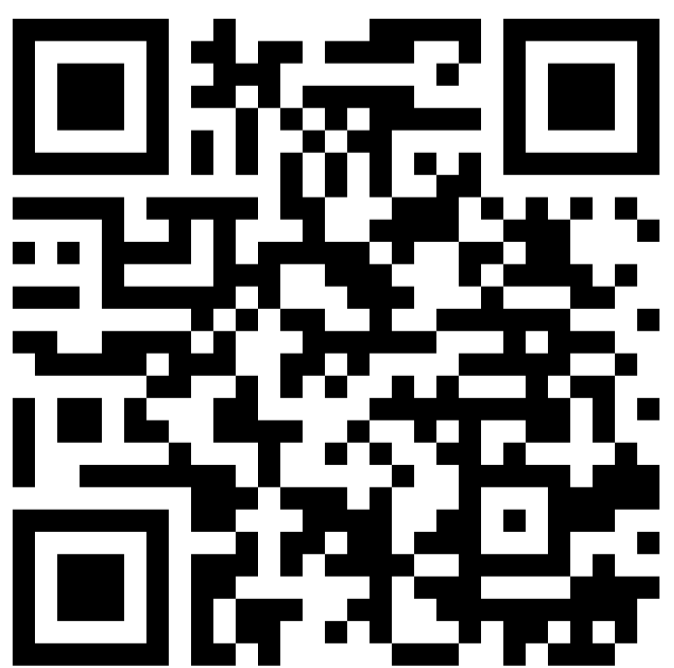
SKILLS

Learn how to

- devise complex probabilistic models for static and dynamic phenomena;
- handle and develop mathematical and statistical tools for data analysis;
- perform estimation, forecasting and uncertainty quantification;
- design and implement algorithms for concretely carrying out the statistical analysis.

PLACEMENT

- Analytics departments of companies operating in banking and insurance, technological industry, financial services, consulting; labs and research centers, international organisations, public administration.
- PhD programs in Statistics, Mathematics, Applied Mathematics, Operations Research, Computer Science, Economics, Mathematical Finance.

The Master's Degree in Stochastics and Data Science is a joint initiative of the Mathematics, ESOMAS and Computer Science Departments of the University of Torino.

Beginning of the courses: September 2015.

For more information on the courses and the admission procedure, please visit: sites.google.com/site/unitosds