

INSPIRING GLOBAL CHANGE SINCE 1222

SCHOOL OF SCIENCE

COMPUTATIONAL FINANCE

Quantitative methods have deeply transformed the world of finance and insurance. Nowadays, new computational tools and artificial intelligence techniques are bringing revolutionary changes in these sectors. This Master's degree is a cross-disciplinary programme providing a solid expertise in computational and quantitative methods applied to the solution of problems in finance and insurance. Experts in Computational Finance will master the techniques for analysing, modelling and managing financial risks, combining knowledge and competencies in economics, mathematics, statistics and informatics.



UNIVERSITÀ
DI PADOVA

COMPUTATIONAL FINANCE

LEVEL Master

SCHOOL Science

DEPARTMENT Mathematics

DURATION 2 years (120 ECTS)

START DATE October

LOCATION Padua, Italy

PROGRAMME COORDINATOR

Claudio Fontana

WEB

[www.unipd.it/en/
computational-finance](http://www.unipd.it/en/computational-finance)

APPLY.UNIPD.IT

ENTRY REQUIREMENTS

- Bachelor degree (or equivalent) with proven skills in Mathematics (linear algebra, differential and integral calculus), Probability and Statistics
- English language: B2 level (CEFR) or equivalent

PROGRAMME STRUCTURE

1st Year: Fundamentals of Computational Mathematics; Fundamentals of Information Systems; Principles of Financial Economics; Regression and Time Series Models; Stochastic Methods; Machine Learning for Finance; Econometrics for Credit and Market Risk; Financial Reporting and Risk Management. 2nd Year: Stochastic Finance; Risk and Insurance; Quantitative Risk Management; Law and Data; 2 elective courses; master thesis project.

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 in Computational Finance have a good command of computational and quantitative techniques, aligned with the latest trends of the financial and insurance sectors. Graduates can pursue a wide range of careers in banking, insurance, asset management, energy and consulting firms.



TOP 200 2025

Computer Science
and Information Systems



WORLD
UNIVERSITY
RANKINGS

BY SUBJECT