

INSPIRING GLOBAL CHANGE SINCE 1222

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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  
DEGLI STUDI  
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**



**TOP 200** 2024

Computer Science  
and Information Systems



WORLD  
UNIVERSITY  
RANKINGS

BY SUBJECT

## ENTRY REQUIREMENTS

- Bachelor degree (or equivalent), with proven skills in Mathematics, Probability, 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](http://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.