

- 10

VP142 ESOMAS

Visiting Professor Program Academic Year 2024/2025

TEACHING COMMITMENT: 16 hours

COURSE TITLE

Machine Learning for Finance Applications

TEACHING PERIOD

1st term

SCIENTIFIC AREA

Quantitative Finance

LANGUAGE USED TO TEACH

English

COURSE SUMMARY

The course introduces some fundamental concepts from machine learning, with a focus towards important financial applications.

In particular, the lectures will offer an Introduction to Machine Learning and an overview of the concepts used for financial applications. These applications could include: deep hedging; randomized neural network for pricing derivatives; and deep calibration.

LEARNING OBJECTIVES

The course intends to provide students with the main concepts related with the use of machine learning in finance. This up-to-date methodologies are immediately useful both in the financial industry and in more advanced courses (e.g., PhD level).

VISITING PROFESSOR PROFILE

The Visiting Professor must be an expert in financial derivatives and related mathematical and statistical methods, including machine learning, as recognized through research activities, publications in international academic journals, and teaching activities.

CONTACT REFERENT

Bertrand Lods bertrand.lods@unito.it