



UNIVERSITÀ DEGLI STUDI DI TORINO

ID

VP55\_DIP\_ESOMAS

## Visiting Professor Program Academic year 2022/2023

TEACHING COMMITMENT: 20 hours

### COURSE TITLE

**Statistical Inference**

### TEACHING PERIOD

2nd term

### SCIENTIFIC AREA

Statistics

### LANGUAGE USED TO TEACH

English

### COURSE SUMMARY

The course aims at consolidating the student's toolkit on statistical methods by means of an advanced treatment of these topics.

### LEARNING OBJECTIVES

Ability to construct estimators, confidence intervals and hypothesis tests in common parametric statistical models.

Understanding of the theoretical properties of the derived statistical methods (in particular, in the asymptotic setting).

Knowledge of the Bayesian framework and ability to apply Bayesian methods in various inference problems.

### TUTORSHIP ACTIVITIES

N/A

### LAB ACTIVITIES

N/A

## **OTHER ACTIVITIES BESIDES THE COURSE**

N/A

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## **VISITING PROFESSOR PROFILE**

The VP will be a highly qualified scholar, with a record of publications on international journals and doctoral studies in a prestigious institution, and with verifiable expertise in probability and statistics.

## **CONTACT PERSON AT THE DEPARTMENT**

Prof. Matteo Ruggiero

matteo.ruggiero@unito.it