

14D000

Master Project

6 ECTS

Overview and Objectives

The goal of this Master is to form data scientists with the necessary toolkit and knowledge to adequately interpret, comprehend and analyze data of all shapes and forms, in addition to having the vision of understanding which are the big questions to address. Furthermore, the student should be able to communicate the importance of the question, the intuition behind the statistical methods used, and the estimation results in a rigorous way. The Master Project is meant to also demonstrate students' capacity to work autonomously and teamwork is encouraged.

Students have to produce a theoretical or empirical contribution. Students are to use the acquired knowledge as well as their creativity and skillfulness in using theory or data to address research questions. Student could for example show ability to develop hypotheses and design empirical tests of the hypotheses, and implement such tests and interpret the results. Students can choose a topic chosen by a professor or can find their own topic, once the directors of the program agree that it satisfies the requirements for passing the necessary quality level.

Master projects will comply with the commonly agreed standards of academic writing in terms of rigor, technical correction, clarity, accuracy, honest attribution of ideas and thoughts (that is, clear distinction between someone else's thinking and that of the authors), full justification of claims, and avoidance of irrelevant contents.

Learning Outcomes and Competencies

The competences acquired should include:

- Possess and comprehend original knowledge that should be used in a research setup
- Apply the acquired statistical toolkit in a practical manner, with actual data involved.
- Ability to find solutions to unexpected problems. Adapt the toolkit to the needs of each moment.
- Combine knowledge of different subjects so that they are integrated in a common research project.
- Communicate the results in a rigorous and intuitive way to an audience that might be heterogeneous in their knowledge of the topic under study.

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Required Activities

During the Master Thesis, the student will be in permanent contact with the academic supervisors from our school.

The Master Thesis requires the submission of a document in the format of an academic paper, in addition to a 20 minutes presentation in front of an academic jury.

Evaluation

Master projects will be evaluated according to the extent to which they demonstrate the aforementioned competencies.

Presentations will take place at the end of the third quarter.