

UNIVERSIDAD OBERTA DE CATALUNYA

Master's degree in Data Science

MASTER THESIS

AREA: Specialized fields

# Unsupervised methods applied to Galaxy distribution

---

**Author:** Carlos Toro Peñas

**Supervisors:** ...

**Advisors:** ...

**Professor:** Laura Ruiz Dern

## Chapter 1

# Introduction

### 1.1 Justification of interest and relevance

In this work we want to answer partially the question of how is shape arround our position, in this case the Milky Way, this can be done now a days thanks to the unsupervised techniques and the data collected from Surveys such as SDSS (Sloan Digital Sky Survey) and 2D When we apply machine methos to data provided from the Surveys we expect to find some structure

### 1.2 Personal motivation

Since the beginning of time, the man has always looked at the nighth sky and felt the feeling of the inmense and profound dark of the Universe.