

**Project title:** Data-driven modelling of the decision of patients who leave the emergency department without being seen

**Faculty advisor:** Prof. Vahid Sarhangian

**Description of the project:** In this project we will analyze a large RFID-based dataset of visits to an Emergency Department (ED) to understand the factors affecting the decision of patients who leave the ED without being seen by a physician, and develop a model of this behaviour with the goal of improving the scheduling and capacity allocation decisions in the ED. The ideal candidate has experience with binary regression models, has worked with data in R or Python (pandas), and has taken a graduate course in Stochastic Processes or Simulation.