

Case 30: Career Choices Among College Students

A university career center wants to understand how students choose their first job sector after graduation. Graduates typically enter one of three mutually exclusive job sectors: Industry, Academia, Government. The career center randomly collects 300 recently graduated and graduating students and records the following variables: JobSector, GPA, Internship (Yes / No), and Major (STEM / Non-STEM). The goal is to understand how these predictors influence the probability of choosing each job sector. ([download data](#))

Initial Questions

1. What are the research objectives?
2. What are the statistical questions?
3. What is the response variable, and what is the data type of the response variable?
4. What are the explanatory variables of interest?
5. Are there covariates?
6. What is the population of interest?
7. What is the subject, and what is the number of distinct subjects?
8. Are there subject-level data?
9. Are response variables dependent (repeated measures / clustered subjects)?
10. Are the subjects selected randomly?
11. Are the subjects randomly assigned to different groups?

Initial Thoughts