Remarque

The course is for MA students and in particular for PhD students.

Summary

This course is neither an introduction to the mathematics of statistics nor an introduction to a statistics program such as R. The aim of the course is to understand statistics from its experimental design and to avoid common pitfalls of statistical reasoning. There is space to discuss ongoing work.

Content

Sensitivity and Bias
Statistical Power
Bayes Theorem and Odds Ratio
What the t-test measures
Classical statistical tests
Experimental design
Fraud and misconduct of statistics

Learning Prerequisites

Required courses
Very Basic Mathematics