# Statistical Methods

Free University of Bozen-Bolzano

Master in Computer Science

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Statistical Methods - Heider Jeffer Notation ([Link](https://github.com/HeiderJeffer/Statistical-Methods/blob/main/Statistical%20Methods%20-%20Heider%20Jeffer%20Notation.pdf))

# List of topics

* Discrete random variables and their distributions: probability; random variables; probability distributions; expected values.
* Statistical Inference: tests of significance and p-values; Bayes' theorem; a short account on decision-making.
* Correlation and regression.
* Time series analysis: basic smoothing techniques (averaging methods, exponential smoothing techniques); short account on more advanced fitting techniques.
* Dynamic systems and Markov chains: Markov processes, states, transition probabilities and matrices; remarkable applications.