Formation R - Non-Paramatric Hypothesis Tests in Geneva, Zurich, Huston, San-Antonio, Dallas, Los Angeles, San Diego, New York, Washington, Chicago, San Francisco and anywhere in Switzerland, USA, Great Britain and Germany.

ID : 1020

Goal : The goal of this course is to practice with R Bachelor and Master level statistical tools for non-punctual and parametric inferential analysis or uni/multivariate data for all fields in the services, industry, R&D and sensory analysis. No maths will be done or explained during this course (you can request the corresponding theoretical course).

Audience : Engineers, mathematicians, physicists, chemists, biologists, financial analysts,

logisticians, managers, statisticians or other profile having to do statistical analyzes as part of their work and wishing to avoid creating formulas or macros in a spreadsheet software.

Prerequisites : Have followed the course R on foundations and charts or have equivalent knowledge (+strong theoretical knowledge in statistics). The trainee must also have the ability to represent mentally simple and complex mechanisms process. Since the course includes demonstration and hands-on use of a software, participants should master file management in MS Windows/Linux/Mac based personal computer.

Goals :

- Introduction
- Reminders about the taxonomy of the 270 parametric tests
- Generate random variables
- Q-Q Plots
- Power of a one sample bilateral Z-test
- Sample size of a one sample bilateral Z-test
- Power of a one sample bilateral Student t-test
- Resolution of a one sample bilateral Student t-test
- Sample size of a one sample bilateral Student t-test
- Anderson-Darling adequation test (ie Agostion-Stephens)
- Shapiro-Wilk adequation test
- Confidence interval of the mean with known variance (one sample Z-test)
- Test of the difference of two mean with known variance (two samples left-sided Z-test)
- Bilateral Student t-test for one sample
- Student t-test for paired samples
- Homoscedastic bilateral Student t-test for the equality of means
- Fieller's test for the ratio of two means (A/B test)
- Heteroscedastic bilateral Student t-test for the equality of means (Welch's test)
- Sample size of a one sample bilateral p-test
- Sample size of a two samples bilateral p-test
- ...

Pedagogical method : The training is based on small practical exercises based on the training book.

Suggested duration for presentiel training (days) : 3
Suggested duration for on-line training (days) : 3.6

Daily price in face-to-face : 625 CHF
Daily price in remote : 300 CHF
Daily price in remote for students : contact us (only if student card!)
Daily price in remote (with recording) : 3125 CHF
Prices are per day per trainee without course material, without certificate, without evaluation, without exam, without training room or computer (these are each optional and must be requested in addition in the contact form for the establishment of the quote).

Book

- **Title :** *R - La Bible en images et en couleurs*
- **Author(s) :** *Vincent Isoz*
- **Pages :** *2400*

- **ISBN :**

Tags : R parametric statistics training, R parametric statistics course, z-test, t-test, fisher test, anova, ancova, parametric tests, p-test, powerof a test, effect size of test, resolution of a test, chi-2 test, kolmogorov-smirnov test, anderson-darling test, ryan-joiner test, shapiro-wilk test.

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