

**education**  
**workshops & seminars**

**Statistical analysis in Practice**

by Theodoros Papaioannou

Academic period 2013–2014 on Mondays

<b>Seminar</b>	<b>Topic</b>	<b>hours</b>	<b>cost</b>
Seminar A-1	Basic statistical principles, types of variables, research design and methodology, data coding, design of questionnaires.	4	€ 50
Seminar A-2	Learning of basic functions of SPSS software. Database design, data entry in SPSS, data processing in practice.	4	€ 50
Seminar A-3	Descriptive analysis, distribution normality, outliers, missing data analysis.	4	€ 50
Seminar A-1	Formulation of statistical hypotheses, selection of proper statistical tests to verify each hypothesis, When do we use Chi-square, t-test, ANOVA, correlation coefficients, linear regression, logistic regression, Cox-regression, parametric and non-parametric tests.	4	€ 50
Seminar B-2	Basic principles and application of Chi-Square, t-test and ANOVA	4	€ 50
Seminar B-3	Basic principles and application of correlation analysis and linear regression analysis	4	€ 50
Seminar B-4	Basic principles and application of logistic (binary) regression and cox-regression analysis	4	€ 50
Seminar C-1	Multivariate analyses Basic principles and application of multiple linear regression analysis	4	€ 60
Seminar C-2	Multivariate analyses Basic principles and application of multiple logistic and Cox regression analysis	4	€ 60
Seminar C-3	Multivariate analyses Basic principles and application of MANOVA, General linear models	4	€ 60
Seminar C-4	Basic principles and application of ROC Analysis (receiver operator curves) and Survival curves (Kaplan Meier analysis)	4	€ 60
Seminar C-5	Basic principles and application of reliability analysis and factor analysis	4	€ 60