Universidade de São Paulo Faculdade de Filosofia, Letras e Ciências Humanas Departamento de Ciência Política

FLS-6183 Métodos Quantitativos de Pesquisa II 2º semestre / 2017

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Lab 1

Review of Hypothesis Tests Difference of means test vs. coefficient test in a bivariate regression model

Part I. Univariate Hypothesis Test Review

1) Please summarize the hypothesis test (univariate) on y as described in the lab? After running the hypothesis test, what can we conclude?

Part II. Bivariate Hypothesis Test Review

- First, let's carry out a hypothesis test where the dependent variable, y, is a continuous variable (y) which differs between two groups with a difference of means test. Please summarize the result of the difference of means hypothesis test on y? After running the hypothesis test, is there a difference in the mean conditional on x?
- 2) Next, let's carry out the same test using a bivariate regression model. Please summarize the result of the difference of means hypothesis test on y? After running the hypothesis test, is there a difference in the mean conditional on x?
- 3) Do you think there is a preferred method in this particular case for these type of data (y= continuous and x=dummy)?
- 4) Are there any advantages of using a regression in this case? Please explain.