

Tutorial 5 HT

Research Methods for Political Science - PO3110

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Table of contents

1. Homework 2 - Review
2. Expanding Homework 2

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Work in groups. Make three new regression analyses: v0530_02 is the dependent variable in each, but each model has only one independent variable (v0490_02, v0239_02 or v0900_07).

1. Compare the size of the coefficient in the main model and the three separate models. Are they similar or different? Provide an explanation for any differences you may find.
2. Compare the standard errors between the main model and the three separate models. Look for any (major) differences and try to come up with an explanation.
3. Compare R^2 between the four models (the three separate models and the main model). Why is R^2 necessarily larger for the main model than for any of the other models?

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 - $SS_R = \sum (y_i - \beta_0 - \beta_1 \times x_i)^2$

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3. A difference in opinion about the nature of scientific and causal inference.

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