Research Methods for Political Science PO3110 (TCD)

HT: Tutorial 5 - Week 6

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University College Dublin, https://github.com/letmeni/research-methods

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- 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.
- 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 R2 between the four models (the three separate models and the main model). Why is R2 necessarily larger for the main model than for any of the other models?
 - Think about two things:
 - $R^2 = \frac{SS_M}{SS_-}$
 - OLS minimises SS_R . $SS_R = \sum_i (y_i \hat{y}_i)^2$ $SS_R = \sum_i (y_i \beta_0 \beta_1 \times x_i)^2$



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- 2. MIS: One cannot generalise on the basis of an individual case
- 3. MIS: Case studies are useful in generating hypotheses, but are not so useful in hypothesis testing and theory building.
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