Assignmente Mojecto Linear Panel Models ECON6300/7320/8300 Help Linear Panel Models

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Introduction

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▶ Panel data regression under the pooled (PA), fixed effects (FE) and random effects (RE) models

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- We begin with a demonstration from Microeconometrics using STATA Chapter 8
- ► We move on to a practical bookin particular and octors earlings

Demonstration (1)

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We analyse PSID data from Baltagi and Khanti-Akom (1990) for 595 people observed in 1976-1982

**TVO Give tile (1950) a Wax a data for in Wich og-wage (lwage) depends on experience (exp), experience squared (exp2), education (ed) and weeks worked (wks)

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Practical (1)

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- We estimate a wage equation. Our wage variable is yearn (use desc command). (You should use log wage as your dependent variable.) WCOGET.COM
- Our covariates include yhrs female, childu5, visa, expr, fellow, ausmed, selfemp, hospwork, clinpct, ahcall, complex, opportunity and anything else out think is relevant (use desc command)

Practical (2)

- 1. Load the data into STATA, summarize and describe
- 2. Look at the within and between variation. Which variables are time invariant?

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- 4. Plot the wages over time for a few doctors of your choosing
- 5. Do a scatter of wage and experience using (i) All of the article (ii) With a wide (iii) Concern (iii) Concern (iii) All of the appropriate polynomial for experience in your wage regression.
- 6. Compute the OVS estimator of your wage equation. Make sure your standard errors are appropriate!
- 7. Is there evidence of serial correlation of your OLS error term u_{it} ? Is it consistent with $u_{it} = \alpha_i + e_{it}$ where e_{it} is i.i.d.?
- 8. Compute the PA, RE and FE estimators. For the PA model assume that $u_{it} = \rho u_{it-1} + v_{it}$
- Test the RE model against the FE model