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

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Introduction

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- Dynamic panel data models
- ► Webein Svith a Den New attent of the Classical wage equation
- Maddon Waschat powcoder

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

- We estimate a wage equation. Our wage variable is logwage.
- Our governates include education fedue), potential experience (potexper), cognitive ability (cogability).
- We also have data on mother/father education (mothered/fathered), an indicator for growing up in a broker time (wrkin lone) and number V/s (bing stillings)
- Individual identifier is personid and time identifier is timetrnd.

Practical (2)

- 1. Load the data into STATA and summarize the panel
- Estimate random and fixed effects models using outcome logwage and covariates educ, potexper and cogability

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- 4. Estimate a panel IV regression using random effects, in which you treat cogability and potexper as exogenous covariates and course of the project of the
- 5. Perform a Hausman-Taylor regression in which educ is allowed to be correlated with or the bootstrap to obtain standard error which are volust to heterosked acticles and sortal correlation. Are the overidentifying restrictions valid?
- 6. Estimate an AR(1) dynamic panel data model with no covariates, and then using potexper and educ treating educ as endogenous and using lags as instruments. Is there serial correlation? Are the instruments valid? Try adding the additional instruments mothered and fathered (use inst(mothered fathered))