Assignmente Mojecto Lexiam Help Linear Panel Models

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Introduction

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- Dynamic panel data models
- ► Webein Stitle a turb state from Marbeconometrics using STATA Chapter 9 looking at the classical wage equation
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Demonstration (1)

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

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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 (educ), potential experience (potexper), cognitive ability (cogability).
- We also have data on mother/father education (methered/fathered), an indicator for growing up in a bloce from brightnone and humber of Siblings (siblings)
- 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 could be projected. Use an appropriate spirit instruments for educ.
- 5. Perform a Hausman-Taylor regression in which educ is allowed to be correlated with α_i . Use the bootstrap to obtain standard evos which are retust to be restricted and serial 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))