# Assignmente Mojecto Lexiam Help Linear Panel Models

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#### Introduction

### Assignmente Project Exam Help

 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 looking at doctor's earnings

#### Demonstration (1)

### Assignment Project Exam Help

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 yearn (use desc command), (You should use log wage as your dependent variable) LOICS.COM
- Our covariates include yhrs female, childu5, visa, expr, fellow, ausmed, selfemp, hospwork, clinpct, ahcall, complex oppenprand angulting else you 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 artifactors. With relationary. Oceanne an appropriate polynomial for experience in your wage regression.
- 6. Compute the OL Sestimator 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