Panel Data Econometrics (EC977) 2019/20 Module Outline and General Information

Module lecturer

Wiji Arulampalam, S2.118.

email: wiji.arulampalam@warwick.ac.uk;

Advice & Feedback Hours (Term 1): Mon & Tues 11:00-12:00.

Pre-requisites Econometrics B (EC910) **Handouts 1-5**.

Organisation

- 2-hour lecture/class per week.
- Mondays 11:00-13:00 in Oculus OC1.04.
- PLUS 2 to 3 additional hours of teaching (later on in the term).

Assessment:

- (i) 2-hour exam (80%):
- (ii) **Two** empirical exercises (@ 10%). These empirical exercises will be structured problems using data provided by me.

Module webpage:

www.warwick.ac.uk/go/ec977 (handouts, examples, datasets, etc. will be available from there. Make sure that you sign up for notifications.)

Aim of module

To provide an understanding of panel data econometric techniques and their use in the empirical investigation of economic models.

Approach

- Parametric models (semi-parametric not covered)
- Mathematical derivations
- Mainly practical (plus some theoretical background).
- Focus is on: large N, small T.
- Illustrations of the techniques using published empirical work.
- Empirical examples (Stata based).

Module contents

- <u>Handout 1</u>: Some preliminary stuff.
- Handout 2: Static linear models: exogenous covariates;
 Some of the material in Handout 2 should be already familiar.
 Hence, I will not be going through the material in greater detail.
- <u>Handout 3</u>: Static linear models: endogenous covariates
- <u>Handout 4</u>: Dynamic linear models: IV, GMM, etc.
- <u>Handout 5</u>: Static binary dependent variable models

• <u>Handout 6</u>: Dynamic binary dependent variable models

IMPORTANT

The handouts are copies of my slides and NOT lecture notes!

Thus, will be brief. You are advised to supplement these handouts with material from the referenced books.

The module contents will be covered in (i) lectures, (ii) classes where STATA examples are discussed, and (iii) assignments where you will be provided with data and a structured question paper.

Main Texts

- Cameron and Trivedi *Microeconometrics: Methods and Applications* (CUP, 2005), Chapt 21-23. (e-boook)
- Wooldridge *Econometric Analysis of Cross Section and Panel Data* (MIT Press, 2010), 2nd edition. (1st edition **e-boook**)
- M. Verbeek, A Guide to Modern Econometrics, 4th or 3rd editions, Wiley. An electronic version of the 2nd edition is available via our library.