Econometrics
of Human
Capital

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Material available on





Introduction to the Econometrics of Policy Evaluation

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Introduction

J. Heckman (2008) defines three policy evaluation tasks:

- Evaluating the impact of historical interventions on outcomes including their impact in terms of wellbeing of the treated and the society at large.
- Forecasting the impact of historical interventions implemented in one environment in other environments, including their impact in terms of well-being.
- Forecasting the impacts of interventions never historically experienced to various environments, including their impact on well-being.

Econometrics of policy evaluation

- ▶ is important
- is complicated
- is multifaceted

Numerous applications

- labor economics
- development economics
- industrial economics
- health economics

Numerous effects

- conventional average effects
- policy-relevant average effects
- marginal effects
- distributional effects
- effects on distributions

Numerous estimation strategies

- instrumental variables
- (quasi-)experimental methods
- matching

Generalized Roy model

Potential Outcomes

$$Y_1 = \mu_1(X) + U_1$$

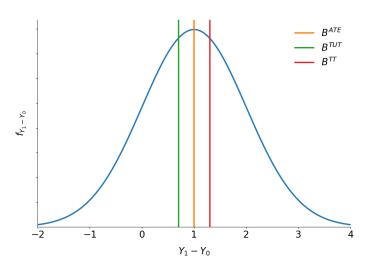
$$Y = DY_1 + (1-D)Y_0$$

$$Y_0 = \mu_0(X) + U_0$$

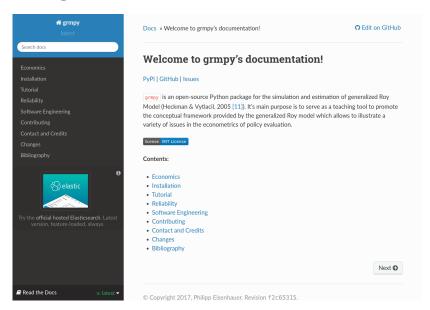
Choice

$$D = I[\mu_D(X, Z) - V > 0]$$

Figure: Treatment Effects



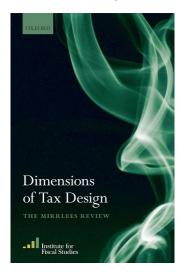
Teaching Tool



The Mirrlees Review

The Mirrlees Review brought together a highprofile group of international experts and early career researchers to identify the characteristics of a good tax system for any open developed economy in the 21st century, assess the extent to which the UK tax system conforms to these ideals, and recommend how it might realistically be reformed in that direction.

Figure: The Mirrlees Review





Taxation of Earnings

A single integrated benefit should be introduced to replace all or most of the current multiplicity of benefits, rationalising the way in which total support varies with income and other characteristics.

Indirect Taxes

VAT should be extended to nearly all spending. This would reduce complexity and avoid costly distortions to consumption choices.

Environmental Taxes

We should work towards a comprehensive system of congestion charging on the roads, replacing most of fuel duty.

Taxes on Saving

► The risk-free return to saving should not be taxed, so that saving is not discouraged.

Business Taxes

► The tax treatment of employment, self-employment and corporate source income should be aligned.

Appendix

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