

# Recent Advances in the Field of Trade Theory and Policy Analysis Using Micro-Level Data

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# Sample selection models in Stata

- Heckman estimator
- Panel data

## Heckman estimator

- Heckman “two-stage” estimator:
  - First stage probit (selection equation)
  - A second stage OLS (outcome equation)
- Do not estimate these two models separately and plug the inverse Mill’s ratio into OLS: you will obtain incorrect standard errors!
- Use Stata’s *heckman* command:
  - *heckman depvar indepvar1 indepvar2 ..., select(indepvar1 indepvar2 ... overidvar1) options*
- It produces maximum likelihood estimates of the two equations jointly
- If you have trouble obtaining ML estimates, use the *twostep* option (but *vce(robust)* and *vce(cluster clustvar)* are not available)
- See “heckman.do”

## Panel data

- Stata does not have any built in panel data models for Heckman
- Recall that the first stage probit model is inconsistent in the presence of fixed effects
- To estimate a fixed effects Heckman model, include the dummy variables manually...
  - *heckman depvar indepvar1 indepvar2 ... dum1 dum2 ..., select(indepvar1 indepvar2 ... dum1 dum2 ...), options*
- ...But you have to be very cautious when interpreting the results of such models

预览已结束，完整报告链接和二维码如下：

[https://www.yunbaogao.cn/report/index/report?reportId=5\\_7496](https://www.yunbaogao.cn/report/index/report?reportId=5_7496)

