# Assignmente Mojecto Lexiam Help Instrumental variables

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#### Introduction

This class will review:

## Instrumental variables stream Help Tests for endogeneity of regressors

Tests for weak instruments

Tests of overidentifying restrictions (instrument validity)

We begin with a demonstration from Microeconometrics using STATA Chapter 6 looking at the effect of employer union sponsored health insurance on drug

We move on to a practical looking at the the returns to schooling

#### Demonstration (1)

# Assignment Project Exam Help insurance

- The data is from the Medical Expenditure Panel Survey

  We explore the effect of employer/union sponsored health
  insurance (hitempunion) on (log) erug experioriture
  (ldrugexp)
- ▶ We treat insurance as endogenous as it is a choice

A variable. Those who expect high future medical expenses are dore likely to take outlined ance. WCOCCI

### Demonstration (2)

### We analyse data or Pealth, retirement and private Help

- We consider as instruments:
  - The proportion of total income that comes from social

### indicato of lowincome that is towncome in the size of the individual's firm's labour force (firmsz)

- Whether the firm operates in more than one location (multlc)

As exogenous regressors we include number of chronic cardinon Notchil, age lentale hankilisharicindication (blhisp) and log income (linc)

The data are mus06data.dta and the do file is mus06p1iv.do

#### Practical (1)

We use data from Kling (2001): mus06klingdata.dta are

Assiwage data collected 1976 ect Exam Help
(grade76) on wages (wage76)

- Other covariates in the wage equation could be black, south 70 Snsa74, 102 Vog. Snsa61 age/6 age/6 age/6. (Use desc)
- Years of schooling (grade 76) is endogenous! Those with higher ab lity thrid to have more schooling, and ability ought also to determine wages.
- Possible instruments could be proximity to a 4 year college (col4) or family education levels (e.g. daded momed)

### Practical (2)

Load the data

### SSIQUIMONTIPE TO LOCAL DEMONSTRUMENTO DE

- Estimate the 2SLS model and optimal two-step GMM. Assume heteroskedastic errors. Interpret your results
- putter son / es les voir co coche en marco m
- Are your results sensitive to the choice of instrument(s)?
- Is there evidence of endogeneity of the regressors in your waged atiwe Chat powcoder
  Are your instruments weak?
- Are your instruments valid?