Assignmente Projecto Fexiam Help Quantile Regression

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Introduction

Assignment Project Exam Help

- Quantile regression
- Bootstrap standard errors
- Simultaneous quantile regression and hypothesis tests
- We begin with a demonstration following <u>Microeconometrics</u> using STATA chapter 7.
- We'mov on that ract Castal to Estimating Engel curves for medical expenditure in Vietnam.

Practical (1)

- We have data from the World Bank's 1997 Vietnam Living
 Standards Survey for 5,006 households with positive
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 - The variables are age and gender of household head, whather the household is a farm, whether it is urban, the household size, log total household expenditure and log household expenditure on medicine.
 - We are interested in estimating Engel curves for medical expenditure nat: CSTUTOTCS
 - ➤ The outcome of interest is log household expenditure on medicine, the covariate of interest is log total household expenditure and the remaining variables are controls.

Practical (2)

- 1. Load the data, summarize and describe
- 2. Plot the quantiles of the outcome of interest (log household expenditure on medicine)

Assignments the quantification at the median and Help medical expenditure (not log total medical expenditure)

- 4. Compare the OLS estimates of the coefficient on log total expenditure with the quantile estimates pp 0.1, 0.5, 0.9. Is there evidence of heterogeneity at different quantiles?
- 5. Are your findings consistent with heteroskedasticity in the standard linear regression model (OLS)? Perform a test of hyteroskedasticity verify his LOTCS
- 6. Test equality of the coefficient on log total expenditure at quantiles 0.1,0.5,0.9 (i.e. $H_0: \beta_{.1} = \beta_{.5} = \beta_{.9}$)
- 7. Plot the quantile regression coefficients against the quantiles. Include confidence intervals for the quantile regression coefficients. Include the OLS coefficient and confidence interval for comparison.