

avoid parametric models
microeconometrics using

- departures from OLS in a cross-sectional setting / longitudinal setting
panel

↳ we may find that OLS could not be applied to answer a research question
- not necessarily applied to "micro" type problems only

time series econometrics

- observe a unit over time → special data structure
→ order of observations matter
- OLS usually applied but there are a lot of exceptions.

example regression of GDP on time trend

t	GDP _t	GDP _{t-1}	ln(GDP ~ t)
1985			
1986			
1987			
...			
2023			

lagged variable

models are summarized by a finite number of unknown constants.

parametric

→ models show up more often

and distributions are specified

discrete choice modeling → regressand (Y) is categorical

example. $Y \in \{0, 1\}$
not spam spam

$Y \in \{0, 1\}$
do not enter labor force enter labor force

$Y \in \{A, B, C, D\}$
bond ratings.

IPUMS (ipums.org) = cross-sectional
not necessarily longitudinal

ECONOMET → empirical corporate finance
empirical asset pricing
Philippine setting: household finance.

Refinitiv Eikon

business math rate is constant over time

Why bother taking log of returns?

- striking contrast to ECONOMETR
- ↳ multiplication → addition
- ↳ $\log(1+x) \approx x$ for x small enough