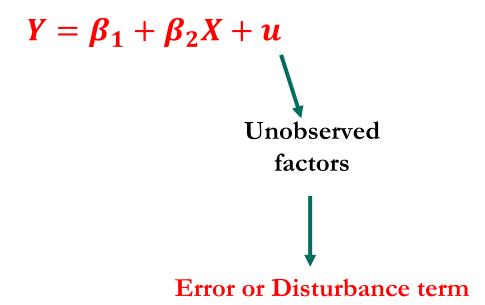


Lesson Goal

• Learn the significance of the error term in econometric models.

Stochastic Error Term

• An econometric model:



- 1. Vagueness of theory
 - Economic theory may be incomplete or vague.
 - In consumption theory, we may be ignorant or unsure of other variables that can affect consumption.

- 2. Unavailability of data
 - Data may not be enough or simply not available.

- 3. Core variables versus peripheral variables
 - Consumption-income model (religion may be a factor but difficult to measure)
 - Omit a variable whose information may not be available.

- 4. Intrinsic randomness in human behavior.
 - o Human error or biasness in measurement

- 5. Poor proxy variables
 - Not enough information on a proxy (or substitute) variable.
 - Examine IQ on wages, but IQ is difficult to measure so you replace it with scores on mathematics.

- 6. Principle of parsimony
 - Exclude irrelevant variables from the model

- 7. Wrong functional form
 - Misspecification of econometric models.
 - Use log-log model instead of the usual linear model.

THANK YOU!

Next Lesson: Two Variable Regression (linearity, expectation, etc...)

ECONOMETRICS