Introduction to probability and data with R

Anecdotal evidence: limited rample rise that might not be representative of the population.

data matrix:

rous - obrevoation (distance) column, - reasiable (feauture)

ouriables

(quantitative)

continuous directly regular ordinal

- uncountable - countable

- inherent ordinal

Variabler which show some connection are called dependent.

Studies observational - not directly interfere

exporiment

- random arigment

retrospective: user part data prospective: throughout Confounding Coariable: affect both variables, explanatory Correlation does not imply constion Connux: all population rample: not exploratory analysis: measuring the sample inference: generalize, but they sample needs to be representative Nources of rampling biar: - Convenience sample - Pen - serponse - Coluntary response Sampling Methods:

Simple sandom sampling: each case is equally to be selected. Stratified rampling: - divide the population into thou randomly sample from within each (stratum).

Cluster sample: - divide the population into clusters, randomly sample a few clusters.

Muturlage sample: - divide into clusters, randomly, rample a few clusters and " rample from within these clusters and "

Experimental design

Control, Randomize, Replicate, Block.

explanatory vocabler: are imposed in the experiment

blocking variabler: characteristics that the experiment

come with, that we would like

to control.