

Experiments and Comparative Observational Studies

Experiments vs. comparative observational studies

Research Strategy	Comparative Observational	Experiment
Model, Roles, of variables	<p><u>Explanatory Variable</u> ↔ Response Variable</p> $X \leftrightarrow Y$ <p>A model such as $Y = f(X) + e$ can be invoked, but the both X and Y are random, and the role (explanatory or response) is not intrinsic.</p>	<p><u>Explanatory Variable</u> (Treatment) → Response Variable</p> $X \rightarrow Y$ $Y = f(X) + e$ <p>$f(X)$ is mean response as a function of X $e = [Y - f(X)]$ is random "error", i.e., random deviation of individual's response, Y, from mean response, $f(X)$</p>
Same Purpose	To study a relationship between explanatory (denoted by X) and random response denoted by Y) variables	
Different Methodologies	X is a random characteristic of the units observed, not manipulated or controlled by the investigator. The investigator models (i.e. thinks of) X and Y as explanatory and response, but the role (explanatory or response) is not intrinsic.	X is a non-random "treatment" randomly assigned at to experimental units. Experimenter manipulates and controls X .
Causality	<u>cannot</u> infer causality on the basis of statistics alone	<u>can</u> infer causality on the basis of statistical results
Reference	B&M Chapter 7	B&M Chapter 8

Statistics For Comparative Studies

Sabine Zange

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