

Experimental Research Designs

Experimental research designs are used to determine the causal relationship between variables. In an experimental design, the researcher manipulates one or more independent variables and measures the effect on the dependent variable. This design allows for the control of extraneous variables, which can confound the results of the study.

There are several types of experimental designs, including randomized controlled trials, quasi-experiments, and field experiments. Randomized controlled trials are the gold standard of experimental research, as they involve random assignment of participants to experimental and control groups. Quasi-experiments are similar to randomized controlled trials but do not involve random assignment. Field experiments are conducted in natural settings, which can increase the external validity of the study.

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