

Statistical Inference Methods

These are the most common classical methods for statistical inference.

Inference for One Variable

Quantitative	Categorical (binary)	Categorical (non-binary)
One-sample <i>t</i> -methods	One-sample proportion methods	χ^2 goodness of fit test

Inference for Two Variables

		Explanatory Variable		
		Quantitative	Categorical (binary)	Categorical (non-binary)
Response Variable	Quantitative	Linear regression	Two-sample <i>t</i> -methods	One-way ANOVA
	Categorical (binary)	Logistic regression	Two-sample proportion methods or χ^2 -test for association	χ^2 -test for association
	Categorical (non-binary)	Multinomial logistic regression (not covered)	χ^2 -test for association	χ^2 -test for association