

Applications

stats545.4 545.4 Multivariate confidence intervals

Gunnar Stefansson

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Background

This lecture is a placeholder for a collection of examples and applications of the theory

One regression line or two?

are two regression lines really the same?

two level factor...

the question generates 4 models

what comparisons can be made?

the lack of fit test

taken from Neter et al

the approach reverses the usual logic (do I need a line) to "is a line enough"

Smoothers

consider the cubic spline...

can be a linear model

can be used to test whether a line is appropriate

if the knots are chosen based on data then we have a GAM, not the usual linear model

other splines are normally used, but this is a simple introduction

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