

# Back to the future: the DeLorean meets statistics

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## Abstract

After boarding the DeLorean, in the first part of this talk (*the past*), I will present a couple of case studies where the adaptation, extension, and development of some statistical models and estimation methods, are shown to solve various problems encountered in the social, educational, and behavioral sciences.

In the second part (*the present*), I will talk about a particular statistical problem in the field of educational test theory known as *equating*. I will discuss on the role of random variables, probability distributions and parameters as involved in equating and on the possibility of going towards a formal statistical model framework for equating.

In the last part (*the future*), I will discuss some open problems which are part of my research plans for the future.

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