



THE UNIVERSITY OF
CHICAGO

Department of Statistics

MASTER'S THESIS PRESENTATION

SHAO MOU CHENG

Department of Statistics
The University of Chicago

The Effects of Smoking, Alcohol and Marijuana on Mood Levels
and Variation: An Application of a Mixed-Effects Location Scale
Model

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Jones 226, 5747 S. Ellis Avenue

ABSTRACT

In this article, we would like to address one key question: What is the difference between the effects of smoking, alcohol and marijuana on people's mood? A mixed-effects location scale model is applied to a longitudinal study on adolescent smokers that has lasted for more than five years, and we find out the effects of smoking, alcohol and marijuana are similar on the mood mean but different on WS mood variance, with subject-level effects on mean and variance controlled and estimated.

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