



The University of Chicago
Department of Statistics
Master's Seminar

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**Estimation of Measurement Errors of Childhood
Retrospective Section of NLSY97 Survey**

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ABSTRACT

Measurement errors- sampling errors, response errors, and nonsampling errors- are important issues in survey analyses. These errors may cause biases in estimating parameters, increase variability, or distort the relationships among variables. Estimation of measurement errors provides information on the quality of data and help methodologists and researchers improve the accuracy and reliability of the data.

In round 6 of NLSY97, the Childhood Retrospective Section (CRS) was introduced to collect information from respondents who did not have a complete parent interview. To evaluate how the section recovered the information on parent interview, a control sample was selected. The control sample was selected from respondents who completed parent interview in round 1. This control sample can be regarded as the reinterview and measurement errors were estimated. In this paper, we especially focus on the measurement errors of event history of living arrangements of responding youths.