



THE UNIVERSITY OF  
**CHICAGO**

Department of Statistics

MASTER'S THESIS PRESENTATION

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Weighted Analysis of Olfactory Dysfunction Data

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Eckhart 110, 5734 S. University Avenue

### ABSTRACT

Weighting is often used when regression models are estimated from survey data. Survey weighting methods can provide consistent estimation of regression coefficients under unequal probability sampling. In this paper, we emphasize on the design weight method and the modified weight method which minimizes the variance of the estimated coefficients. We apply to the olfactory dysfunction data from the National Social Life, Health and Aging Project [NSHAP], where we fit a logistic regression model with mortality rate as the response and various variables of health science interest included as predictors.

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