PREDICTING TRUCK DRIVERS' CRITICAL EVENTS: EFFICIENT BAYESIAN HIERARCHICAL MODELS

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2019

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Dedication

To my parents.

Acknowledgement

I want to thank my PhD mentor and committee chair Dr. Steven E. Rigdon.

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INTRODUCTION

1.1 Traffic safety

I used the **knitr** package and the **bookdown** package to compile my book (Xie, 2014, 2016). My R session information is shown below:

Package names are in bold text (e.g., **rmarkdown**), and inline code and filenames are formatted in a typewriter font (e.g., **knitr::knit('foo.Rmd')**). Function names are followed by parentheses (e.g., bookdown::render_book()).

1.2 Truck driver

LITERATURE REVIEW

- 2.1 Truck crashes
- 2.2 Precursors to crashes
- 2.3 Risk factors
- 2.3.1 Fatigue
- 2.3.2 Traffic
- 2.3.3 Weather
- 2.4 Hierarchical Bayesian models
- 2.5 Conceptual framework
- 2.6 Gap and research aims

Aim1:

Aim2:

Aim3:

METHODS

- 3.1 Data source
- 3.2 Study design
- 3.3 Analytical Plan for Aim 1
- 3.4 Analytical Plan for Aim 2
- 3.5 Analytical Plan for Aim 3

AIM 1

CHAPTER 4. AIM 1

AIM 2

AIM 3

Chapter 7 DISCUSSION

CHAPTER 7. DISCUSSION

Bibliography

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BIBLIOGRAPHY BIBLIOGRAPHY

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APPENDIX A. THIS IS ONE

Appendix B This is two

APPENDIX B. THIS IS TWO