

R Markdown Document Template

Michael G. DeCrescenzo
University of Wisconsin–Madison

Updated October 17, 2018

Abstract for an R Markdown document built with pdfL^AT_EX. Styles are similar to the pdfL^AT_EX template. We additionally control title styles using `{titling}`. Many stylistic options are currently controlled globally by the main file's YAML header when they could probably be contained within an `include-header` argument in an `_output.yml` file.

1 INTRODUCTION

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

1.1 ELABORATION ON A FINER POINT

Let's say we wanted to write some pretty math. Let's say we really thought item response theory (IRT) models were beautiful, and we were to write one flavor of IRT model to estimate individuals-within-groups (Caughey and Warshaw 2015):

$$\Pr(y_{ij} = 1) = \Phi[\beta_j(\theta_i - \alpha_j)] \quad (1)$$

$$\theta_i \sim \text{Normal}(\bar{\theta}_{g[i]}, \sigma_{g[i]}) \quad (2)$$

1.1.1 *We are Low, Hierarchically*

Sub-sub-sections may not be desirable, but we're exploring it.

REFERENCES

Devin Caughey and Christopher Warshaw. Dynamic estimation of latent opinion using a hierarchical group-level irt model. *Political Analysis*, page mpu021, 2015.