March 30, 2020

Marc Brysbaert, PhD

Department of Experimental Psychology

Ghent University

Ghent, Belgium

Dear Dr. Brysbaert:

Dr. Mark Huff and I are submitting our manuscript entitled “The lrd Package: An R Package for Processing Lexical Response Data” to be considered for publication as an original research article in *Behavior Research Methods*.

Although cued-recall tests are commonly used in psychology, no open access tools currently exist to quickly process the large amounts of lexical data that these studies generate. As such, this paper presents the *lrd* (lexical response data) package for *R*, which allows researchers to quickly and accurately score large amounts of lexical output, while also being able to control for minor errors in participant responses. In this paper, we provide an overview of the package, a user guide for scoring data in *R*, and introduces an *R Shiny* application that can be operated using only Excel skills. We then show that data scored using *lrd* accurately reproduces manually coded data by using this program to replicate the results of two cued-recall studies and by testing the reliability of its output relative to hand coded data.

We hope that *lrd* will both drastically reduce the amount of time spent coding lexical data and assist the reproducibility measures being adopted by the field by providing researchers with a standardized, open-source method for processing lexical output across psychological studies. This work is original and not under review elsewhere, and we report no conflicts of interest. We look forward to hearing about the suitability of our paper in *Behavior Research Methods*.

Sincerely,

Nicholas P. Maxwell, M.S.

School of Psychology

The University of Southern Mississippi

nicholas.maxwell@usm.edu

Ph: 601.266.5411

Cc:

Mark J. Huff, PhD

Assistant Professor

School of Psychology

The University of Southern Mississippi

mark.huff@usm.edu

Ph: 601.266.5411