

Draft Thesis Proposal

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Introduction

Research goals...

develop a valid method to investigate the plausibility of multiply imputed data based on:

- models (imputation and non-response)
- data features (cross-tabs, point estimates, aggregate statistics, etc.)
- assumptions
- algorithmic convergence

Literature review

Van Buuren, 2018...

Approach

R Shiny...

ShinyMICE

- single measure to assess whether algorithm converged (based on Gelman-Rubin statistic?)
- data visualizations pre and post imputation (scatterplots, densities, cross-tabs)
- statistical evaluation of relations between variables pre and post imputation (chi square or t-tests)