

Package ‘multe’

August 2, 2023

Title Multiple Treatment Effects Regression

Version 0.0.0.9000

Description This R package implements contamination bias diagnostics for regressions with multiple treatments. The implementation is based on Goldsmith-Pinkham, Hull, and Kolesár (2022) <[arXiv:2106.05024](https://arxiv.org/abs/2106.05024)>.

Depends R (>= 4.3.0)

Language en-US

URL <https://github.com/kolesarm/multe>

BugReports <https://github.com/kolesarm/multe/issues>

License MIT + file LICENSE

Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.2.3

Imports stats,
nnet,
tidyr

Suggests spelling,
knitr,
formatR,
rmarkdown,
testthat (>= 3.0.0)

Config/testthat/edition 3

LazyData true

VignetteBuilder knitr

R topics documented:

| | |
|-----------------|---|
| fl | 2 |
| multe | 3 |
| Index | 4 |

| | |
|----|---|
| f1 | <i>ECLS data from Fryer and Levitt (2013)</i> |
|----|---|

Description

This dataset contains a subset of the publicly available Early Childhood Longitudinal Study Birth Cohort data from Fryer and Levitt (2013).

Usage

f1

Format

A data frame with 8806 rows corresponding to children and 21 columns corresponding to the variables:

W1C0 Sampling weights (first interview)

W2C0 Sampling weights (second interview)

multiple_birth Multiple birth status

parent_score Interviewer rating of the effectiveness of the 'parent as a teacher', Nursing Child Assessment Teaching Scale (total score).

SES_quintile Quintile of socioeconomic status

region US region

interviewer_ID_9 Interviewer ID (first interview)

interviewer_ID_24 Interviewer ID (second interview)

mom_age Age of mother

days_premature Days premature

siblings Number of siblings

family_structure Family structure

birthweight Birthweight category

female Female

mom_age_NA Age of mother missing

age_9 Age at first interview

age_24 Age at second interview

std_iq_9 Standardized IQ at first interview

std_iq_24 Standardized IQ at second interview

parent_score_NA parent_score missing

race Race

Source

[doi:10.3886/E112609V1](https://doi.org/10.3886/E112609V1)

References

Roland G Fryer and Steven D Levitt. *Testing for racial differences in the mental ability of young children*. *American Economic Review*, 103(2):981–1005, April 2013. [doi:10.1093/qje/qjy006](https://doi.org/10.1093/qje/qjy006)

multe

Contamination Bias Diagnostics for Multiple Treatments

Description

Contamination Bias Diagnostics for Multiple Treatments

Usage

```
multe(r, treatment_name, cluster = NULL)
```

Arguments

| | |
|-----------------------------|--|
| <code>r</code> | Fitted model, output of the <code>lm</code> function. |
| <code>treatment_name</code> | name of treatment variable |
| <code>cluster</code> | Factor variable that defines clusters. If <code>NULL</code> (or not supplied), the command computes heteroscedasticity-robust standard errors, rather than cluster-robust standard errors. |

Value

Returns a list with the following components: TODO

Index

* **datasets**

fl, [2](#)

fl, [2](#)

multe, [3](#)