Package: TwoSampleCalImpute (via r-universe)

November 9, 2026

Type Package

Title Two-Sample Calibrated Imputation for Survey Data

Version 0.0.0.9000

Description Provides computational implementations of the Two-Sample Calibrated Imputation framework for incomplete survey data when auxiliary information is available from a separate reference sample. The package supports data preparation, survey design specification, calibration, imputation, estimation, variance estimation, diagnostics, reporting, and reproducible analytical workflows.

Depends R (>= 4.3.0)

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Encoding UTF-8

Roxygen list(markdown = TRUE)

Config/roxygen2/version 8.1.0

Suggests covr, devtools, pkgdown, rcmdcheck, roxygen2, testthat, usethis

URL https://github.com/Kamun2026/TwoSampleCalImpute

BugReports https://github.com/Kamun2026/TwoSampleCalImpute/issues

Repository https://kamun2026.r-universe.dev

Date/Publication 2026-10-10 15:26:38 UTC

RemoteUrl https://github.com/kamun2026/twosamplecalimpute

RemoteRef HEAD

RemoteSha 9124323e7234efadab13014e2989e5fb68314f61

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`print.tsci_data` *Print a tsci_data object*

Description

Print a tsci_data object

Usage

```
## S3 method for class 'tsci_data'
print(x, ...)
```

Arguments

`x`	A `tsci_data` object.
`...`	Additional arguments.

`print.tsci_design` *Print a tsci_design object*

Description

Print a tsci_design object

Usage

```
## S3 method for class 'tsci_design'
print(x, ...)
```

Arguments

`x`	A `tsci_design` object.
`...`	Additional arguments.

tsci_clean_data *Clean survey data*

Description

Performs controlled data-cleaning operations on a `tsci_data` object without silently changing observed values.

Usage

```
tsci_clean_data(data, remove_empty_rows = FALSE, remove_empty_columns = FALSE)
```

Arguments

`data`	A `tsci_data` object.
`remove_empty_rows`	Logical; whether completely empty rows should be removed.
`remove_empty_columns`	Logical; whether completely empty columns should be removed.

Value

A cleaned `tsci_data` object.

tsci_export_data *Export survey data*

Description

Exports a `tsci_data` object to a CSV file.

Usage

```
tsci_export_data(data, file, row_names = FALSE)
```

Arguments

`data`	A `tsci_data` object.
`file`	Character path for the output CSV file.
`row_names`	Logical; whether row names should be written.

Value

Invisibly returns the input `tsci_data` object.

tsci_import_data *Import survey data*

Description

Imports a data set from a supported file or an existing R object and returns it as a standardized `tsci_data` object.

Usage

```
tsci_import_data(
  data,
  sample_type = c("primary", "auxiliary"),
  id = NULL,
  variables = NULL,
  metadata = list()
)
```

Arguments

`data`	A data frame, or a character path to a CSV file.
`sample_type`	Either `"primary"` or `"auxiliary"`.
`id`	Optional character identifier variable.
`variables`	Optional character vector of variables to retain.
`metadata`	Optional list of metadata.

Value

A `tsci_data` object.

tsci_validate_data *Validate a survey data set*

Description

Performs the basic data-integrity checks required before Two-Sample Calibrated Imputation analysis.

Usage

```
tsci_validate_data(
  data,
  data_name = "data",
  variables = NULL,
  weights = NULL,
  key = NULL
)
```

Arguments

`data`	A data frame to validate.
`data_name`	A character label used in validation messages.
`variables`	Optional character vector of variables to validate.
`weights`	Optional survey weights.
`key`	Optional character vector identifying records.

Value

A list containing validation results.

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