Package 'fastrerandomize'

September 20, 2023

Title fastrerandomize: R Package for Ultra Fast Re-randomization Using a JAX Backend

Version 0.1

Authors 'Connor Jerzak <connor.jerzak@gmail.com> [aut, cre], Rebecca Goldstein <rgoldstein@berkeley.edu> [aut]'

Description An R Package for Ultra Fast Re-randomization Using a JAX Backend

Depends R (>= 3.3.3)

License
Creative Commons Attribution-Noncommercial-No Derivative Works 4.0, for academic use only.

Encoding UTF-8

LazyData false

Maintainer 'Connor Jerzak' <connor.jerzak@gmail.com>

Imports reticulate

RoxygenNote 7.2.3

R topics documented:

---

generate_data *Generate data*

Description

Generate data

Usage

```
generate_data()
```

Value

A list consiting of

- pval A p-value.

References

-

Examples

```
# For a tutorial, see
# github.com/cjerzak/fastrerandomization
```

InitializeJAX   *Initialize JAX*

Description

Initialize JAX

Usage

```
InitializeJax()
```

Value

A list consiting of

- pval A p-value.

References

-

Examples

```
# For a tutorial, see
# github.com/cjerzak/fastrerandomization
```

InitializeJAXFxns   *Initialize JAX*

Description

Initialize JAX

Usage

```
InitializeJAXFxns()
```

Value

A list consiting of

-

References

-

Examples

```
# For tutorials, see
# github.com/cjerzak/fastrerandomization-software
```

---

randomization_test   *Fast randomization test*

Description

Fast randomization test

Usage

```
randomization_test(X, ...)
```

Arguments

obsW   A numeric vector where 0's correspond to control units and 1's to treated units.

obsY   A numeric vector containing observed outcomes.

Value

A list consiting of

- pval A p-value.

References

-

Examples

```
# For a tutorial, see
# github.com/cjerzak/fastrerandomization
```

Index