

Package: jointlyr (via r-universe)

August 18, 2026

Title Joint estimation of initial incidence and reproduction number

Version 0.0.1

Description Provides a Stan implementation of a method to jointly estimate incidence and reproduction number.

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Encoding UTF-8

LazyData true

Roxygen list(markdown = TRUE)

RoxygenNote 7.1.1

Biarch true

Depends R (>= 3.4.0)

Imports EpiEstim, methods, Rcpp (>= 0.12.0), RcppParallel (>= 5.0.1), rstan (>= 2.18.1), rstantools (>= 2.1.1)

LinkingTo BH (>= 1.66.0), Rcpp (>= 0.12.0), RcppEigen (>= 0.3.3.3.0), RcppParallel (>= 5.0.1), rstan (>= 2.18.1), StanHeaders (>= 2.18.0)

SystemRequirements GNU make

Suggests knitr, rmarkdown

VignetteBuilder knitr

Repository <https://mrc-ide.r-universe.dev>

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RemoteUrl <https://github.com/mrc-ide/jointlyr>

RemoteRef master

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jointlyr-package	<i>The 'jointlyr' package.</i>
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Description

A DESCRIPTION OF THE PACKAGE

References

Stan Development Team (2020). RStan: the R interface to Stan. R package version 2.21.2.
<https://mc-stan.org>

jointly_estimate	<i>Jointly estimate IO and Rt</i>
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Description

Joint estimation of initial incidence and reproduction number

Usage

```
jointly_estimate(window, window_back, incid, si_distr, ...)
```

Arguments

window	length of the window used for estimation. If you have the full incidence time-series, only data in this window are used for estimation.
window_back	length of time for which incidence should be estimated.
incid	Incidence used to fit the model. Numeric vector of length window
si_distr	Discretised serial interval distribution
...	Arguments passed to <code>rstan::fit</code> (e.g. iter, chains).

Value

an object of class stanfit

Author(s)

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