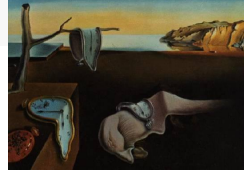


```
## Loading required package: gppm
```

```
## Warning in library(package, lib.loc = lib.loc, character.only
```



```
return = TRUE, : there is no package called 'gppm'
```

Journal of Statistical Software

MMMMMM YYYY, Volume VV, Issue II.

doi: 10.18637/jss.v000.i00

Gaussian Process Panel Modeling in R

Julian Karch
University of Leiden

Abstract

TODO

Keywords: JSS, style guide, comma-separated, not capitalized, R.

1. Introduction

2. Gaussian Process Panel Modeling

3. gppm Package

3.1. Data format

The **gppm** requires data frames as input. The data frames need to be in the long-format. In the long-format each row in the data frame describes the data for one person at one time point. Thus, there are typically multiple rows for each person. An example for a data frame in the long-format can be found in the demo file demoLGCM. The first 6 rows of demoLGCM look like this:

	ID	t	x
1	1	1.876	14.2
2	1	1.771	17.9
3	2	0.789	19.5
4	2	3.317	18.6
5	2	2.393	17.5
6	2	4.667	17.6

Thus, the first row describes person 1 the first measurement took place at time point 1.876 and was 14.157.

The parsers automatically recognizes that μI refers to a parameter, t to an observed value in the data frame, and $+$ to a mathematical operator. Thus, the parameters are defined implicitly via the mean and the kernel functions.

3.3. Model fitting

3.4. Extracting results

4. Illustrations

5. Summary and discussion

■ As usual ...

Computational details

The results in this paper were obtained using R 3.4.1 with the **MASS** 7.3.47 package. R itself and all packages used are available from the Comprehensive R Archive Network (CRAN) at <https://CRAN.R-project.org/>.

Acknowledgments

A. More technical details

Affiliation:

Julian Karch

Methodology and Statistics Unit

Institute of Psychology

Leiden University

Wassenaarseweg 52

2333 AK Leiden, The Netherlands

E-mail: j.d.karch@fsw.leidenuniv.nl

URL: <https://www.universiteitleiden.nl/en/staffmembers/julian-karch>