# Package 'rankSummaries'

July 13, 2015

| Type Package                                                    |                                                                                                                                                     |
|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Title Rank Summary Analysis for l                               | Longitudinal Data                                                                                                                                   |
| Version 1.0.0                                                   |                                                                                                                                                     |
| <b>Date</b> 2015-07-13                                          |                                                                                                                                                     |
| Author Clifford Anderson-Bergma                                 | n                                                                                                                                                   |
| Depends                                                         |                                                                                                                                                     |
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| <b>Description</b> Package for rank summer ris Water Maze data. | mary analysis of longitudinal data. Created for the analysis of Mor-                                                                                |
| License GPL-2                                                   |                                                                                                                                                     |
| R topics documented:                                            |                                                                                                                                                     |
|                                                                 |                                                                                                                                                     |
| Index                                                           | 3                                                                                                                                                   |
| MWM_data Morn                                                   | ris Water Maze Data                                                                                                                                 |
| Description                                                     |                                                                                                                                                     |
|                                                                 | cted from 3 different experiments. Latency represents time until m. Mice are removed from maze if they fail to find the platform in ained 12 times. |

# Format

data(MWM\_data)

Usage

A data frame with 106 rows and 14 variables

- hAPP Mouse Genotype
- cohort Cohort indicator
- LATENCY\_X Latency for trial number X (ranges from 1-12)

2 rankAnalysis

### **Examples**

rankAnalysis

Analysis of Longitudinal Data by Rank Summaries

#### **Description**

Fits a rank summary model for longitudinal data.

## Usage

```
rankAnalysis(formula, data, orderedScoreNames, w = NULL)
```

#### **Arguments**

```
formula for fitting rankScores. See details.

data
dataset
orderedScoreNames
ordered names of longitudinal outcomes

w weights to use. If left = NULL, flat weights are used
```

#### **Details**

In regards to the formula argument, this should be a one sided argument, such as  $\sim$  group + gender, in which we would modeling both group and gender. Formula \*can\* be a two sided formula, i.e. y  $\sim$  group + gender, but the response variable will be ignored (replaced with rank scores).

#### Author(s)

Clifford Anderson-Bergman

### **Examples**

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