

Package ‘actiquantiles’

September 1, 2026

Type Package

Title Map Activity Data to Normalized Quantiles

Version 0.1.0

Description Provides functions mapping physical activity measures to normalized quantiles. Currently, only maps the 'NHANES' quantiles, but other quantiles will be integrated.

License GPL-3

Depends R (>= 3.5)

Suggests testthat, covr, knitr, rmarkdown, dplyr

Encoding UTF-8

Imports mapnhanespa

Config/roxygen2/version 8.0.0

URL <https://github.com/jhuwit/actiquantiles>,
<https://jhuwit.github.io/actiquantiles/>

BugReports <https://github.com/jhuwit/actiquantiles/issues>

NeedsCompilation no

Author John Muschelli [aut, cre] (ORCID:
<<https://orcid.org/0000-0001-6469-1750>>)

Maintainer John Muschelli <muschelli2@gmail.com>

Repository CRAN

Date/Publication 2026-09-01 08:40:15 UTC

Contents

acti_map_nhanes	2
Index	4

acti_map_nhanes

Map physical activity values to NHANES population quantiles

Description

map_nhanes_pa_quantiles() adds a population-level quantile column to a participant-level data frame. Quantiles are evaluated from NHANES accelerometer cumulative distribution functions stratified by age category, sex/gender, measure, and optionally survey wave.

Usage

```
acti_map_nhanes(
  data,
  id = NULL,
  age = "age",
  sex = "sex",
  measure = "measure",
  value = "value",
  wave = NULL,
  age_category = NULL,
  quantile_col = "acti_pa_quantile"
)
```

Arguments

data	A data frame with one row per participant-measure observation.
id	Optional participant identifier column name. The column is checked when supplied, but otherwise left unchanged.
age, sex, measure, value	Column names in data containing age in years, sex/gender, physical activity measure, and observed value. Set age = NULL to use the age-overall CDFs. Set sex = NULL to use the sex/gender-overall CDFs. Setting both to NULL uses the overall CDF across both dimensions.
wave	Optional NHANES wave column name or scalar value. Supported values are 7, 8, "2011-2012", and "2013-2014". If NULL, the combined wave CDFs are used.
age_category	Optional column name containing NHANES age categories such as "[20, 30)" or "Overall". When supplied, it is used instead of age.
quantile_col	Name of the output quantile column.

Value

data with an added quantile column.

Examples

```
example_data <- data.frame(  
  id = 1:2,  
  age = c(25, 62),  
  sex = c("Female", "Male"),  
  measure = c("mims", "ssl_steps"),  
  value = c(15000, 7500)  
)  
  
acti_map_nhanes(example_data)
```

Index

`acti_map_nhanes`, [2](#)