

Package: eva (via r-universe)

September 19, 2026

Title Extreme Value Analysis with Goodness-of-Fit Testing

Date 2026-06-20

Version 0.2.7

Description Goodness-of-fit tests for selection of r in the r -largest order statistics (GEVr) model. Goodness-of-fit tests for threshold selection in the Generalized Pareto distribution (GPD). Random number generation and density functions for the GEVr distribution. Profile likelihood for return level estimation using the GEVr and Generalized Pareto distributions. P-value adjustments for sequential, multiple testing error control. Non-stationary fitting of GEVr and GPD. Bader, B., Yan, J. & Zhang, X. (2016) <[doi:10.1007/s11222-016-9697-3](https://doi.org/10.1007/s11222-016-9697-3)>. Bader, B., Yan, J. & Zhang, X. (2018) <[doi:10.1214/17-AOAS1092](https://doi.org/10.1214/17-AOAS1092)>.

Imports Matrix, parallel, stats, graphics, utils

Depends R(>= 2.10.0)

Suggests rmarkdown, knitr, SpatialExtremes

License GPL (>= 2)

VignetteBuilder knitr

URL https://github.com/brianbader/eva_package

BugReports https://github.com/brianbader/eva_package/issues

LazyData true

Encoding UTF-8

Config/roxygen2/version 8.0.0

Repository <https://brianbader.r-universe.dev>

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