

R Packages

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Statistical Modeling in R

Universidad de Concepción

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Outline

Base Packages

base, datasets, graphics, stats, mgcv, nlme, lattice

Tidyverse Packages

ggplot2, dplyr, tidyr, tibble, magrittr, readr, stringr, lubridate

Other Packages

TMB, RTMB, glmmTMB, lme4, remotes, Rcpp, rmarkdown, knitr, data.table, roxygen2

Repositories and Community

CRAN, Task Views, GitHub, R Scholar

Base packages

base programming language

datasets example data objects

graphics base plots

stats tests, linear models, optimization

mgcv additive models

nlme mixed effects models

lattice multipanel and composite plots

...

Tidyverse packages

ggplot2	plots
dplyr	data manipulation
tidyr	reshape
tibble	data frame
magrittr	pipe
readr	import
stringr	strings
lubridate	dates
...	

Other packages

TMB nonlinear models

RTMB TMB interface

glmmTMB generalized linear mixed models

lme4 mixed effects models

remotes - install package from GitHub

Rcpp C++ interface

rmarkdown dynamic documents

knitr dynamic documents

data.table data frame

roxygen2 write help pages

Repositories and community

CRAN

<https://cran.r-project.org> *packages, sorted by name*

<https://cran.r-project.org/web/views/> *sorted by topic*

GitHub

<https://github.com>

`install_github(owner/repo)` *remotes package*

R Scholar

<https://rscholar.com>

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