Bayesian Statistics

Here is a list of interactive applications related to the course *Bayesian Statistics course Level III/IV* .

To use these applications run *rstudio*, and set your workspace to be *Bayesian_Statistics* .

Install dependences

install.packages("rmarkdown")

A Biostatistics exmple

This is just an simple Bayesian example from Biostatistics (... and Statistics I)

Execute command

rmarkdown::run("./demo_Biostatistics_Bayes/demo_Biostatistics_Bayes.Rmd")

Known distributions

Just some known distributions

Execute command

rmarkdown::run("./demo_distributions/demo_distributions.Rmd")

Central limit Theorem

A demo about the central limit theorem

Execute command

rmarkdown::run("./demo_CLT/demo_CLT.Rmd")

Weak law of large numbers

A demo about the weak law of large number

Execute command

rmarkdown::run("./demo_WLLN/demo_WLLN.Rmd")

Conjugate priors

Explore the behaviour of the posterior distribution, with respect to the hyperparameters of the prior distributions, and the number of observables.

Execute command

rmarkdown::run("./demo_WLLN/demo_ConjugatePriors.Rmd")