# Doing Bayesian Statistics Matlab Toolbox

## Names

- Basic Bayesian Matlab Toolbox

- Matlab Toolbox for Bayesian Estimation (MBE)

## Requirements

JAGS, matJags

## Functions

* MCMCsummary
* HDIofICDF
* HDIofMCMC
* MCMCdiag
* runMCMC

Plots

* Parameter histogram (with ROPE, comparison value, HDI)
* Histogram of data with superimposed Post. Pred. Check
* Correlation of parameters
* Chain Diagnostics
  + Param. Value over iterations
  + Autocorrelation
  + Shrink factor
  + Density of param. Value