"RRGIBBS" – A PROGRAM FOR SIMPLE RANDOM REGRESSION ANALYSES VIA GIBBS SAMPLING. Karin Meyer. Animal Genetics and Breeding Unit, University of New England, Armidale, NSW 2351, Australia.

RRGIBBS facilitates Bayesian estimation of (co)variance components for random regression models using Gibbs sampling. Regressions on orthogonal polynomials or user-defined functions of a continuous covariable can be fitted for multiple random effects, and heterogeneous error variances are accommodated. RRGIBBS allows a range of simple models to be fitted, with details specified through a parameter file. Run time behaviour can be modified through command line options. Summary information and a file with all samples drawn are available. RRGIBBS is written in standard FORTRAN 95. Material available comprises source code, manual and a worked example, as well as pre-compiled programs for several computing environments (e.g. Linux, Compaq Alpha station). RRGIBBS is available only by downloading from its web page : http://agbu.une.edu.au/∼kmeyer/rrgibbs.html