



Approche Bayésienne de la variabilité



Présentation

Description

1. Bayesian inference: Motivation and simple example.
2. The likelihood.
3. A detour to explore priors.
4. Markov chains Monte Carlo methods (MCMC)
5. Bayesian analyses in R with the Jags software.
6. Contrast scientific hypotheses with model selection (WAIC).
7. Heterogeneity and multilevel models (aka mixed models).

Objectifs

1. Try and demystify Bayesian statistics, and MCMC methods
2. Make the difference between Bayesian and Frequentist analyses
3. Understand the Methods section of a paper that does Bayesian stuff
4. Run Bayesian analyses with R (in Jags)

Contrôle des connaissances

Contrôle continu intégral : 100%

Informations complémentaires

Volumes horaires* :

CM : 0 h

TD : 9 h

TP : 6 h

Terrain : 0 h

SPS : 0 h

Séminaires : 0 h

Hors UM : 0 h

Infos pratiques

Contacts

Celine DEVAUX

✉ celine.devaux@umontpellier.fr