



Approche Bayésienne de la variabilité

ECTS
2 crédits

Composante
Faculté des
Sciences

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).

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

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)

Infos pratiques

Contacts

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Contrôle des connaissances

