

# Fit model in JAGS

1. Standardize continuous covariates

2. Bundle the data

3. Write JAGS code

4. Initial parameters

5. Parameters to save

7. Assess mixing

6. Run JAGS

8. Look at output

9 Model validation

10. Sketch fitted values

$y$ : Response  
 $X$ : Covariates  
 $K$ : Number of betas  
 $N$ : Sample size

Priors

- betas: Diffuse Normal
- sigmas
  - Diffuse Uniform
  - Diffuse Gamma
  - half-Cauchy

Likelihood  
Residuals

Get betas from MCMC  
Get artificial X  
Calculate 10,000 fitted values  
Use MyLines stuff

Residuals

- JAGS
- DIY

Use posterior mean betas

Posterior mean  
Posterior SE  
Credible intervals

Histograms posterior distributions



update  
out