

Talks, travel, grants

Brachiopods

Mammals

- ▶ Evolution 2014: basic comparison between NA and European mammal survival
- ▶ GSA 2014: current fully Bayesian model of brachiopod survival
  - ▶ lots of positive feedback, ideas

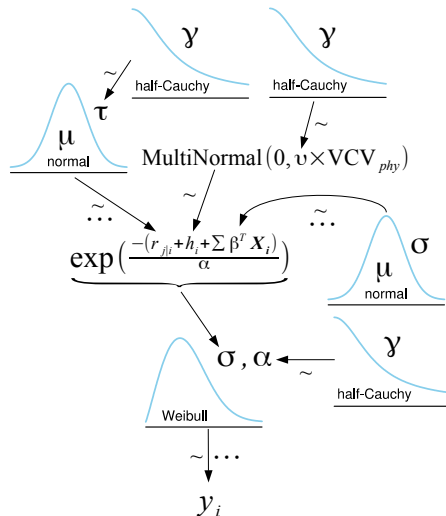
# Travel and grants

- ▶ AMNH: tooth measures for all notoungulate specimens identified to species level
- ▶ DDIG: travel to Argentina; collaboration with Rick Madden

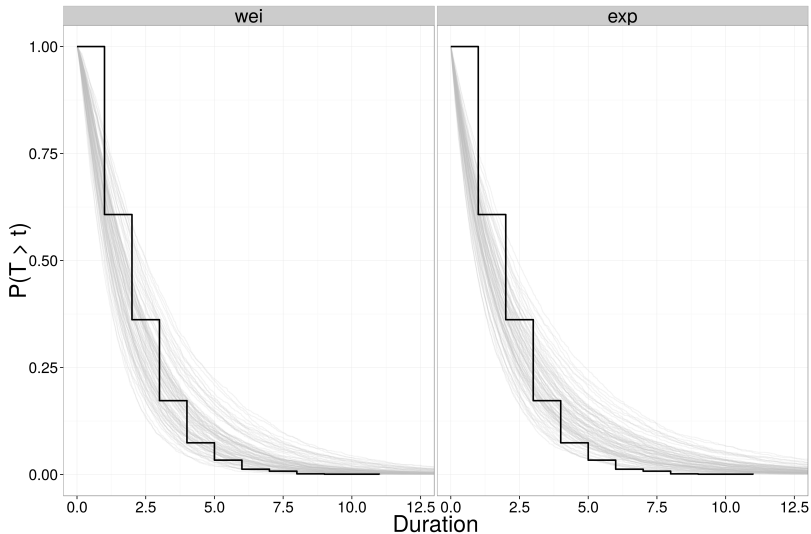
# Survival model development

# North American survival

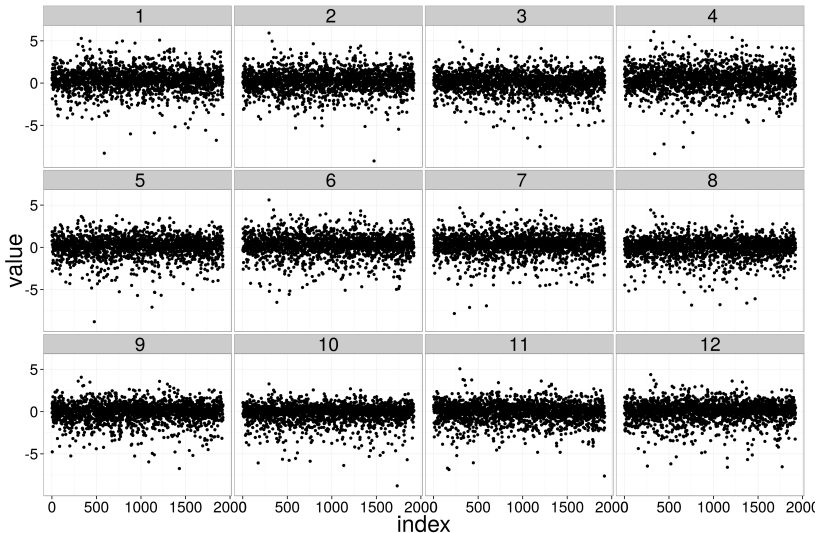
# Model diagram



# Posterior predictive checks: $S(t)$

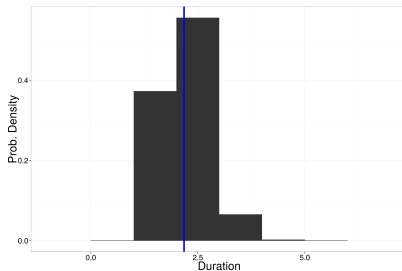
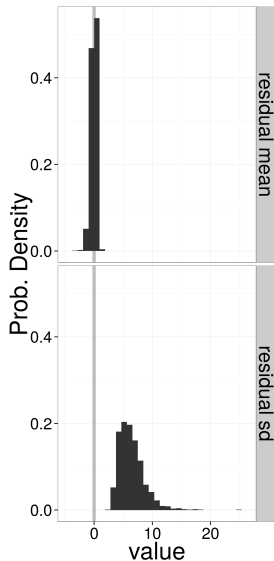


# Posterior predictive checks: stdn. residuals

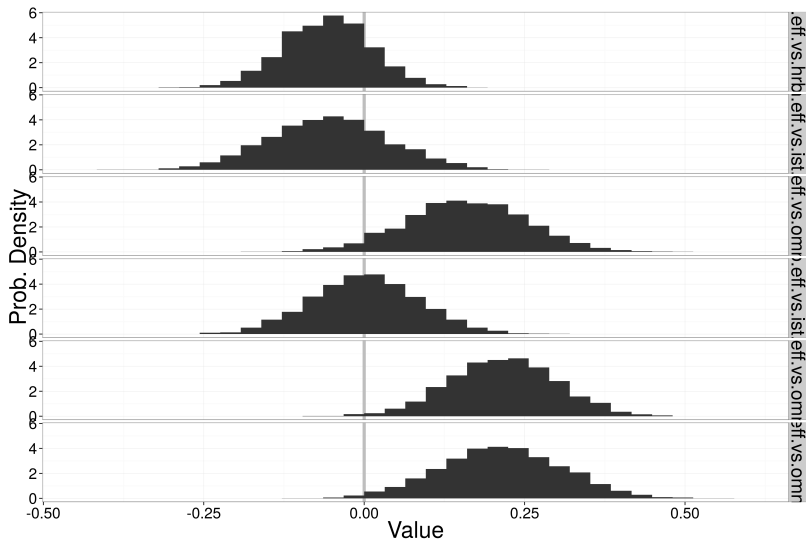




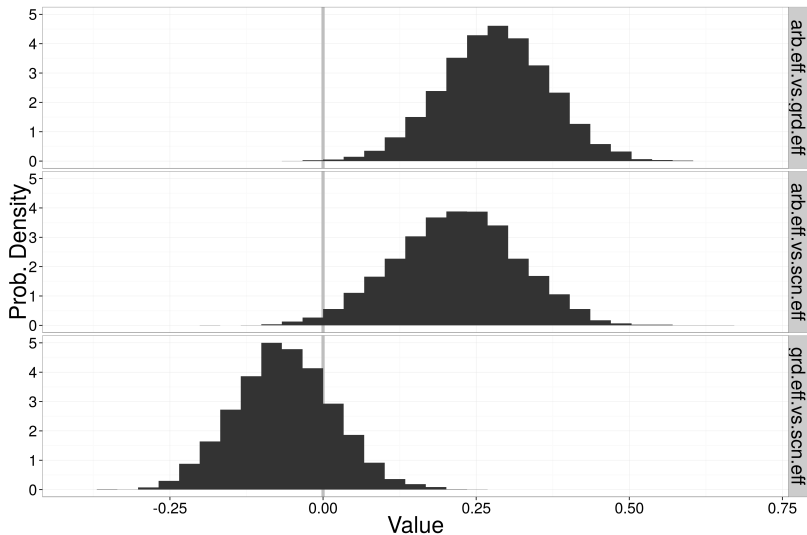
# Posterior predictive checks: residuals and mean



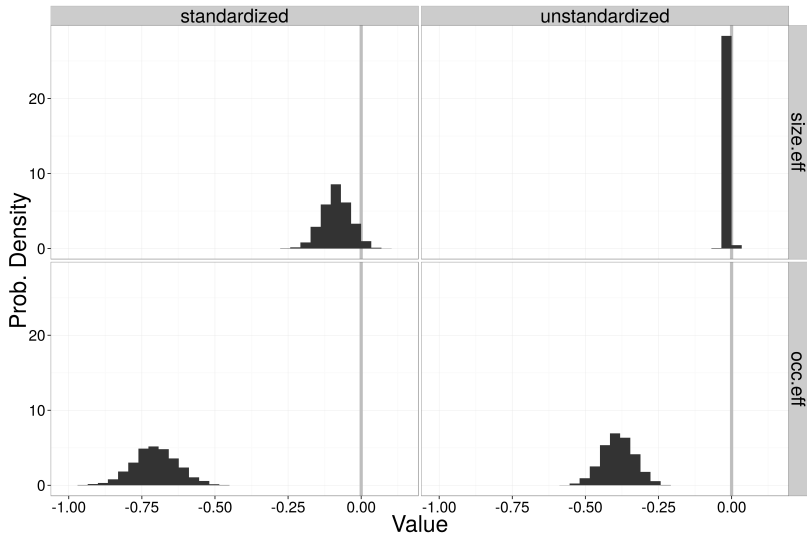
# Pairwise differences of $\beta$ , dietary category



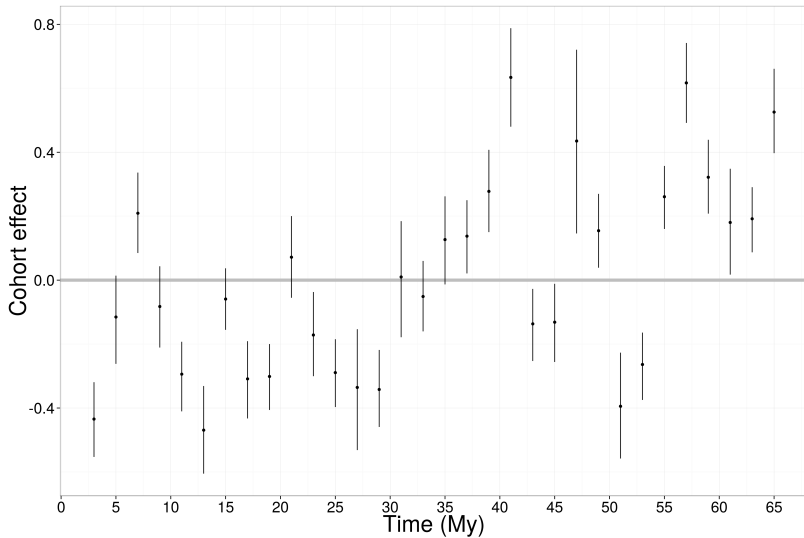
# Pairwise differences of $\beta$ , locomotor category



# Other traits



# Cohort effect



# Hazard curvature

