

Where are we at?

- Frequentist
 - sampling distribution, SSQ, lm, optim
- Likelihood
 - the likelihood, MLE via optim, likelihood ratios
- Bayesian
 - posterior distribution, prior, MCMC, sampost, map2stan, rstanarm
- Simple linear model

Where are we going?

- GLM
 - glm, stan_glm
- GLMM
 - multilevel models, stan_glmer
- Prediction
 - cross-validation, AIC
 - segue to machine learning spring 2022

Dataset to analyze

Scientific questions:

How different is species richness between habitats?

How does species richness vary with latitude?

Is this relationship different between habitats?

