Today

- Ask me anything
  - questions from homework?
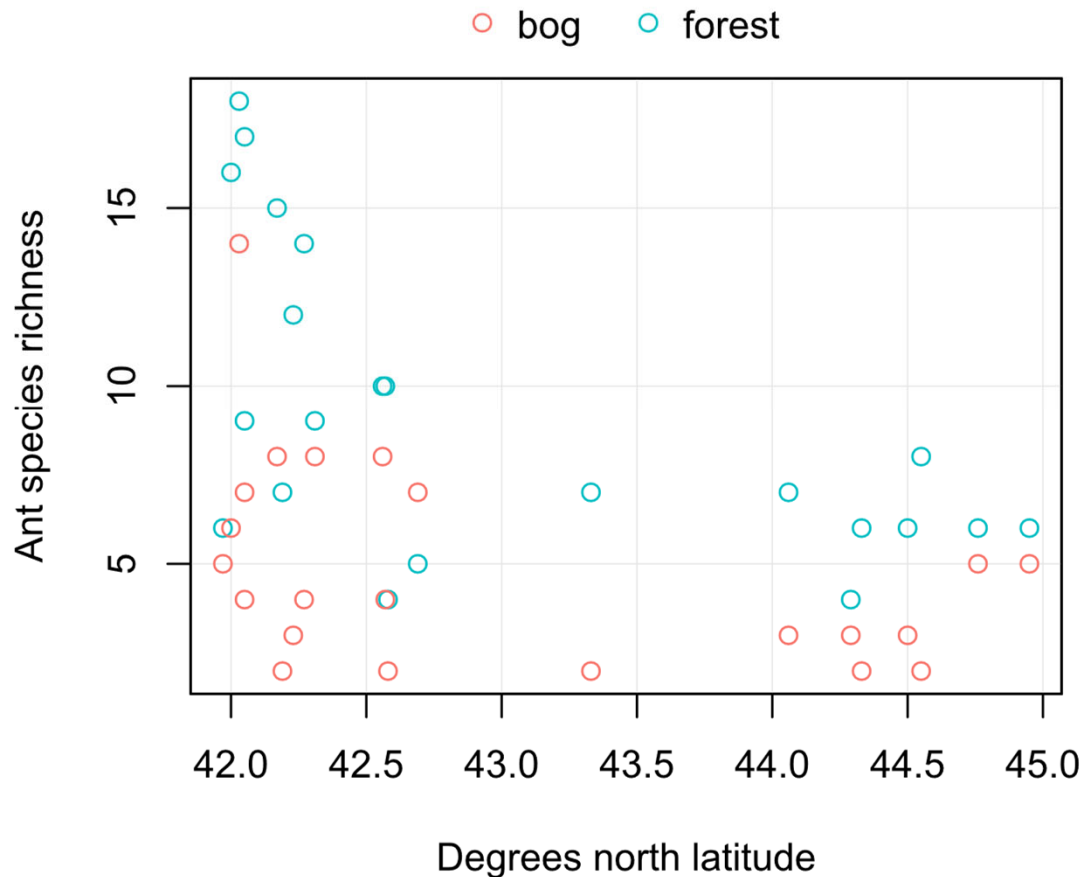 - Rosenbluth algorithm
- Dataset to analyze

Where are we at?

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

Where are we going?

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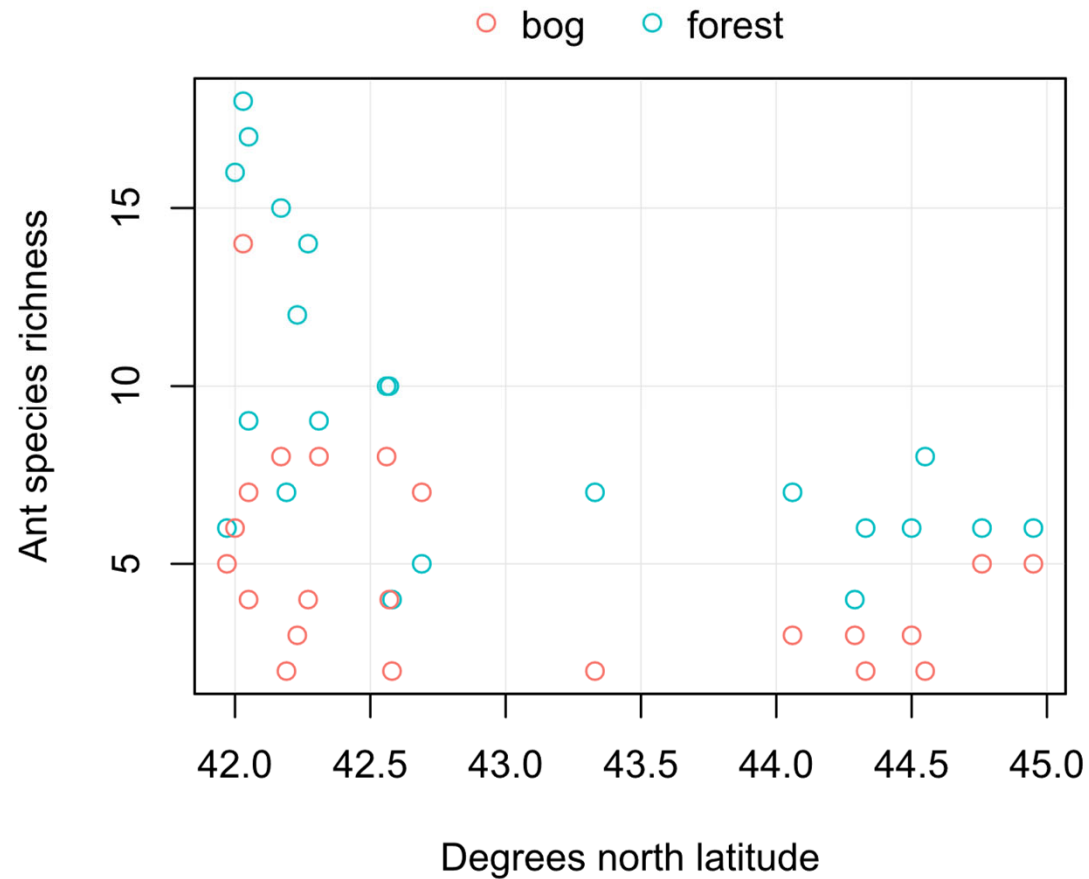 - segue to machine learning

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?

Dataset to analyze

Write the model