biol792ia3

morgan hrivnak

2024-11-14

library(rethinking)

## Loading required package: cmdstanr

## This is cmdstanr version 0.8.1.9000

## - CmdStanR documentation and vignettes: mc-stan.org/cmdstanr

## - CmdStan path: C:/Users/morga/.cmdstan/cmdstan-2.35.0

## - CmdStan version: 2.35.0

## Loading required package: posterior

## This is posterior version 1.5.0

##   
## Attaching package: 'posterior'

## The following objects are masked from 'package:stats':  
##   
## mad, sd, var

## The following objects are masked from 'package:base':  
##   
## %in%, match

## Loading required package: parallel

## rethinking (Version 2.42)

##   
## Attaching package: 'rethinking'

## The following object is masked from 'package:stats':  
##   
## rstudent

library(tidyverse)

## Warning: package 'ggplot2' was built under R version 4.4.1

## Warning: package 'tibble' was built under R version 4.4.1

## Warning: package 'stringr' was built under R version 4.4.1

## ── Attaching core tidyverse packages ──────────────────────── tidyverse 2.0.0 ──  
## ✔ dplyr 1.1.4 ✔ readr 2.1.5  
## ✔ forcats 1.0.0 ✔ stringr 1.5.1  
## ✔ ggplot2 3.5.1 ✔ tibble 3.2.1  
## ✔ lubridate 1.9.3 ✔ tidyr 1.3.1  
## ✔ purrr 1.0.2

## ── Conflicts ────────────────────────────────────────── tidyverse\_conflicts() ──  
## ✖ dplyr::filter() masks stats::filter()  
## ✖ dplyr::lag() masks stats::lag()  
## ✖ purrr::map() masks rethinking::map()  
## ℹ Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors

library(dplyr)  
library(tibble)  
library(raster)

## Loading required package: sp  
##   
## Attaching package: 'raster'  
##   
## The following object is masked from 'package:dplyr':  
##   
## select

library(here)

## Warning: package 'here' was built under R version 4.4.1

## here() starts at C:/Users/morga/OneDrive - The University of South Dakota/Desktop/cupesedimentdata

df <- readRDS(here("alldata\_wrangled.rds"))  
  
#assign non-numerical for percent\_lessorequal  
df$percent\_lessorequal <- as.numeric(df$percent\_lessorequal)

## Warning: NAs introduced by coercion

#filter out NA values  
df\_clean <- df %>%  
 filter(!is.na(percent\_lessorequal))  
#select only the necessary collumns  
df\_cleaner <- df\_clean %>%   
 dplyr::select(percent\_lessorequal, size, site, percent)  
   
#select CARI and MCDI site  
selected\_sites <- df\_cleaner %>%  
 filter(site %in% c("MCDI", "CARI"))  
print(selected\_sites)

## # A tibble: 24 × 4  
## percent\_lessorequal size site percent  
## <dbl> <dbl> <chr> <dbl>  
## 1 6.8 6.8 MCDI 5  
## 2 18.1 18.1 MCDI 16  
## 3 42.3 42.3 MCDI 50  
## 4 29.9 29.9 MCDI 50  
## 5 163. 163. MCDI 84  
## 6 13 13 MCDI 5  
## 7 23.5 23.5 MCDI 16  
## 8 53.3 53.3 MCDI 50  
## 9 4 4 MCDI 16  
## 10 28.6 28.6 MCDI 50  
## # ℹ 14 more rows

# #standardize selected sites  
# sites\_standard <- selected\_sites %>%  
# mutate(across(where(is.numeric), scale))  
# head(sites\_standard)  
  
  
#make variable into index  
selected\_sites$cid <-ifelse(selected\_sites$site == "MCDI", 1, 2)  
  
#main meat but make it gamma  
mod1gamma <- ulam(  
 alist(  
 size ~ dgamma2(mu, scale),   
 log(mu) <- a + bP \* percent ,  
 a ~ dnorm(0, 1) ,  
 bP ~ dnorm(0, 1) ,  
 scale ~ dexp(10)  
 ),   
 data= selected\_sites,   
 iter= 2000,   
 chains = 4,   
 warmup =1000)

## Removing one or more character or factor variables:  
## site

## Running MCMC with 4 sequential chains, with 1 thread(s) per chain...  
##   
## Chain 1 Iteration: 1 / 2000 [ 0%] (Warmup)   
## Chain 1 Iteration: 100 / 2000 [ 5%] (Warmup)   
## Chain 1 Iteration: 200 / 2000 [ 10%] (Warmup)   
## Chain 1 Iteration: 300 / 2000 [ 15%] (Warmup)

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## Chain 1 Informational Message: The current Metropolis proposal is about to be rejected because of the following issue:  
## Chain 1 Exception: gamma\_lpdf: Shape parameter[2] is 0, but must be positive finite! (in 'C:/Users/morga/AppData/Local/Temp/Rtmp4W5Qhw/model-591cbc8ea.stan', line 21, column 4 to column 39)  
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## Chain 1 Exception: gamma\_lpdf: Shape parameter[3] is 0, but must be positive finite! (in 'C:/Users/morga/AppData/Local/Temp/Rtmp4W5Qhw/model-591cbc8ea.stan', line 21, column 4 to column 39)  
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## Chain 1 Iteration: 400 / 2000 [ 20%] (Warmup)   
## Chain 1 Iteration: 500 / 2000 [ 25%] (Warmup)   
## Chain 1 Iteration: 600 / 2000 [ 30%] (Warmup)   
## Chain 1 Iteration: 700 / 2000 [ 35%] (Warmup)   
## Chain 1 Iteration: 800 / 2000 [ 40%] (Warmup)   
## Chain 1 Iteration: 900 / 2000 [ 45%] (Warmup)   
## Chain 1 Iteration: 1000 / 2000 [ 50%] (Warmup)   
## Chain 1 Iteration: 1001 / 2000 [ 50%] (Sampling)   
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## Chain 1 Iteration: 1200 / 2000 [ 60%] (Sampling)   
## Chain 1 Iteration: 1300 / 2000 [ 65%] (Sampling)   
## Chain 1 Iteration: 1400 / 2000 [ 70%] (Sampling)   
## Chain 1 Iteration: 1500 / 2000 [ 75%] (Sampling)   
## Chain 1 Iteration: 1600 / 2000 [ 80%] (Sampling)   
## Chain 1 Iteration: 1700 / 2000 [ 85%] (Sampling)   
## Chain 1 Iteration: 1800 / 2000 [ 90%] (Sampling)   
## Chain 1 Iteration: 1900 / 2000 [ 95%] (Sampling)   
## Chain 1 Iteration: 2000 / 2000 [100%] (Sampling)   
## Chain 1 finished in 0.9 seconds.  
## Chain 2 Iteration: 1 / 2000 [ 0%] (Warmup)

## Chain 2 Informational Message: The current Metropolis proposal is about to be rejected because of the following issue:  
## Chain 2 Exception: gamma\_lpdf: Shape parameter[1] is inf, but must be positive finite! (in 'C:/Users/morga/AppData/Local/Temp/Rtmp4W5Qhw/model-591cbc8ea.stan', line 21, column 4 to column 39)  
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## Chain 2 Informational Message: The current Metropolis proposal is about to be rejected because of the following issue:  
## Chain 2 Exception: gamma\_lpdf: Shape parameter[1] is nan, but must be positive finite! (in 'C:/Users/morga/AppData/Local/Temp/Rtmp4W5Qhw/model-591cbc8ea.stan', line 21, column 4 to column 39)  
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## Chain 2 Iteration: 100 / 2000 [ 5%] (Warmup)   
## Chain 2 Iteration: 200 / 2000 [ 10%] (Warmup)   
## Chain 2 Iteration: 300 / 2000 [ 15%] (Warmup)   
## Chain 2 Iteration: 400 / 2000 [ 20%] (Warmup)   
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## Chain 3 Iteration: 1 / 2000 [ 0%] (Warmup)

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## Chain 3 Exception: gamma\_lpdf: Shape parameter[1] is 0, but must be positive finite! (in 'C:/Users/morga/AppData/Local/Temp/Rtmp4W5Qhw/model-591cbc8ea.stan', line 21, column 4 to column 39)  
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## Chain 3 Iteration: 200 / 2000 [ 10%] (Warmup)   
## Chain 3 Iteration: 300 / 2000 [ 15%] (Warmup)   
## Chain 3 Iteration: 400 / 2000 [ 20%] (Warmup)   
## Chain 3 Iteration: 500 / 2000 [ 25%] (Warmup)

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## Chain 3 Iteration: 600 / 2000 [ 30%] (Warmup)   
## Chain 3 Iteration: 700 / 2000 [ 35%] (Warmup)   
## Chain 3 Iteration: 800 / 2000 [ 40%] (Warmup)   
## Chain 3 Iteration: 900 / 2000 [ 45%] (Warmup)   
## Chain 3 Iteration: 1000 / 2000 [ 50%] (Warmup)   
## Chain 3 Iteration: 1001 / 2000 [ 50%] (Sampling)   
## Chain 3 Iteration: 1100 / 2000 [ 55%] (Sampling)   
## Chain 3 Iteration: 1200 / 2000 [ 60%] (Sampling)   
## Chain 3 Iteration: 1300 / 2000 [ 65%] (Sampling)   
## Chain 3 Iteration: 1400 / 2000 [ 70%] (Sampling)   
## Chain 3 Iteration: 1500 / 2000 [ 75%] (Sampling)   
## Chain 3 Iteration: 1600 / 2000 [ 80%] (Sampling)   
## Chain 3 Iteration: 1700 / 2000 [ 85%] (Sampling)   
## Chain 3 Iteration: 1800 / 2000 [ 90%] (Sampling)   
## Chain 3 Iteration: 1900 / 2000 [ 95%] (Sampling)   
## Chain 3 Iteration: 2000 / 2000 [100%] (Sampling)   
## Chain 3 finished in 1.9 seconds.  
## Chain 4 Iteration: 1 / 2000 [ 0%] (Warmup)   
## Chain 4 Iteration: 100 / 2000 [ 5%] (Warmup)   
## Chain 4 Iteration: 200 / 2000 [ 10%] (Warmup)   
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## Chain 4

## Chain 4 Iteration: 400 / 2000 [ 20%] (Warmup)   
## Chain 4 Iteration: 500 / 2000 [ 25%] (Warmup)   
## Chain 4 Iteration: 600 / 2000 [ 30%] (Warmup)   
## Chain 4 Iteration: 700 / 2000 [ 35%] (Warmup)   
## Chain 4 Iteration: 800 / 2000 [ 40%] (Warmup)   
## Chain 4 Iteration: 900 / 2000 [ 45%] (Warmup)   
## Chain 4 Iteration: 1000 / 2000 [ 50%] (Warmup)   
## Chain 4 Iteration: 1001 / 2000 [ 50%] (Sampling)   
## Chain 4 Iteration: 1100 / 2000 [ 55%] (Sampling)   
## Chain 4 Iteration: 1200 / 2000 [ 60%] (Sampling)   
## Chain 4 Iteration: 1300 / 2000 [ 65%] (Sampling)   
## Chain 4 Iteration: 1400 / 2000 [ 70%] (Sampling)   
## Chain 4 Iteration: 1500 / 2000 [ 75%] (Sampling)   
## Chain 4 Iteration: 1600 / 2000 [ 80%] (Sampling)   
## Chain 4 Iteration: 1700 / 2000 [ 85%] (Sampling)   
## Chain 4 Iteration: 1800 / 2000 [ 90%] (Sampling)   
## Chain 4 Iteration: 1900 / 2000 [ 95%] (Sampling)   
## Chain 4 Iteration: 2000 / 2000 [100%] (Sampling)   
## Chain 4 finished in 1.1 seconds.  
##   
## All 4 chains finished successfully.  
## Mean chain execution time: 1.1 seconds.  
## Total execution time: 4.9 seconds.

precis(mod1gamma)

## mean sd 5.5% 94.5% rhat ess\_bulk  
## a 1.78581448 0.140135951 1.55310490 2.00780190 1.008043 1557.583  
## bP 0.03188357 0.001963821 0.02869886 0.03503362 1.008387 1598.007  
## scale 2.18936074 0.307679039 1.74364985 2.72006125 1.000444 1800.339

mod2gamma <- ulam(  
 alist(  
 size ~ dgamma2(mu, scale),  
 log(mu) <- a[cid] + b[cid] \* percent ,   
 a[cid] ~ dnorm(0,1) ,  
 b[cid] ~ dnorm(0,1) ,  
 scale ~ dexp (10)   
 ),   
 data= selected\_sites,   
 iter= 2000,   
 chains = 4,   
 warmup =1000)

## Removing one or more character or factor variables:  
## site

## Running MCMC with 4 sequential chains, with 1 thread(s) per chain...  
##   
## Chain 1 Iteration: 1 / 2000 [ 0%] (Warmup)   
## Chain 1 Iteration: 100 / 2000 [ 5%] (Warmup)   
## Chain 1 Iteration: 200 / 2000 [ 10%] (Warmup)

## Chain 1 Informational Message: The current Metropolis proposal is about to be rejected because of the following issue:  
## Chain 1 Exception: gamma\_lpdf: Shape parameter[1] is 0, but must be positive finite! (in 'C:/Users/morga/AppData/Local/Temp/Rtmp4W5Qhw/model-591c70be43.stan', line 21, column 4 to column 39)  
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## Chain 1 Iteration: 300 / 2000 [ 15%] (Warmup)   
## Chain 1 Iteration: 400 / 2000 [ 20%] (Warmup)   
## Chain 1 Iteration: 500 / 2000 [ 25%] (Warmup)   
## Chain 1 Iteration: 600 / 2000 [ 30%] (Warmup)   
## Chain 1 Iteration: 700 / 2000 [ 35%] (Warmup)   
## Chain 1 Iteration: 800 / 2000 [ 40%] (Warmup)   
## Chain 1 Iteration: 900 / 2000 [ 45%] (Warmup)   
## Chain 1 Iteration: 1000 / 2000 [ 50%] (Warmup)   
## Chain 1 Iteration: 1001 / 2000 [ 50%] (Sampling)   
## Chain 1 Iteration: 1100 / 2000 [ 55%] (Sampling)   
## Chain 1 Iteration: 1200 / 2000 [ 60%] (Sampling)   
## Chain 1 Iteration: 1300 / 2000 [ 65%] (Sampling)   
## Chain 1 Iteration: 1400 / 2000 [ 70%] (Sampling)   
## Chain 1 Iteration: 1500 / 2000 [ 75%] (Sampling)   
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## Chain 1 Iteration: 1700 / 2000 [ 85%] (Sampling)   
## Chain 1 Iteration: 1800 / 2000 [ 90%] (Sampling)   
## Chain 1 Iteration: 1900 / 2000 [ 95%] (Sampling)   
## Chain 1 Iteration: 2000 / 2000 [100%] (Sampling)   
## Chain 1 finished in 1.3 seconds.  
## Chain 2 Iteration: 1 / 2000 [ 0%] (Warmup)   
## Chain 2 Iteration: 100 / 2000 [ 5%] (Warmup)

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## Chain 2 Iteration: 200 / 2000 [ 10%] (Warmup)   
## Chain 2 Iteration: 300 / 2000 [ 15%] (Warmup)   
## Chain 2 Iteration: 400 / 2000 [ 20%] (Warmup)   
## Chain 2 Iteration: 500 / 2000 [ 25%] (Warmup)   
## Chain 2 Iteration: 600 / 2000 [ 30%] (Warmup)   
## Chain 2 Iteration: 700 / 2000 [ 35%] (Warmup)   
## Chain 2 Iteration: 800 / 2000 [ 40%] (Warmup)   
## Chain 2 Iteration: 900 / 2000 [ 45%] (Warmup)   
## Chain 2 Iteration: 1000 / 2000 [ 50%] (Warmup)   
## Chain 2 Iteration: 1001 / 2000 [ 50%] (Sampling)   
## Chain 2 Iteration: 1100 / 2000 [ 55%] (Sampling)   
## Chain 2 Iteration: 1200 / 2000 [ 60%] (Sampling)   
## Chain 2 Iteration: 1300 / 2000 [ 65%] (Sampling)   
## Chain 2 Iteration: 1400 / 2000 [ 70%] (Sampling)   
## Chain 2 Iteration: 1500 / 2000 [ 75%] (Sampling)   
## Chain 2 Iteration: 1600 / 2000 [ 80%] (Sampling)   
## Chain 2 Iteration: 1700 / 2000 [ 85%] (Sampling)   
## Chain 2 Iteration: 1800 / 2000 [ 90%] (Sampling)   
## Chain 2 Iteration: 1900 / 2000 [ 95%] (Sampling)   
## Chain 2 Iteration: 2000 / 2000 [100%] (Sampling)   
## Chain 2 finished in 1.1 seconds.  
## Chain 3 Iteration: 1 / 2000 [ 0%] (Warmup)

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## Chain 3 Iteration: 2000 / 2000 [100%] (Sampling)   
## Chain 3 finished in 2.0 seconds.  
## Chain 4 Iteration: 1 / 2000 [ 0%] (Warmup)

## Chain 4 Informational Message: The current Metropolis proposal is about to be rejected because of the following issue:  
## Chain 4 Exception: gamma\_lpdf: Shape parameter[1] is 0, but must be positive finite! (in 'C:/Users/morga/AppData/Local/Temp/Rtmp4W5Qhw/model-591c70be43.stan', line 21, column 4 to column 39)  
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## Chain 4 Iteration: 2000 / 2000 [100%] (Sampling)   
## Chain 4 finished in 0.4 seconds.  
##   
## All 4 chains finished successfully.  
## Mean chain execution time: 1.2 seconds.  
## Total execution time: 5.5 seconds.

precis(mod2gamma, depth = 2)

## mean sd 5.5% 94.5% rhat ess\_bulk  
## a[1] 1.77022350 0.176760125 1.47983830 2.04959375 1.001226 1841.332  
## a[2] 1.40574001 0.179460875 1.11106020 1.68468145 1.000798 1763.741  
## b[1] 0.03896407 0.002779316 0.03446910 0.04344834 1.000762 1924.263  
## b[2] 0.03475406 0.002364059 0.03104684 0.03852826 1.000811 1763.714  
## scale 1.44749766 0.236248226 1.10646120 1.84411595 1.000687 2530.424

mod3gamma <- ulam(  
 alist(  
 size ~ dgamma2(mu, scale),  
 log(mu) <- a[cid] + b[cid] \* percent ,   
 a[cid] ~ dnorm(35, 5) ,  
 b[cid] ~ dnorm(35, 5) ,  
 scale ~ dexp (10)   
 ),   
 data= selected\_sites,   
 iter= 2000,   
 chains = 4,   
 warmup =1000)

## Removing one or more character or factor variables:  
## site

## Running MCMC with 4 sequential chains, with 1 thread(s) per chain...

## Chain 1 Informational Message: The current Metropolis proposal is about to be rejected because of the following issue:  
## Chain 1 Exception: gamma\_lpdf: Shape parameter[1] is nan, but must be positive finite! (in 'C:/Users/morga/AppData/Local/Temp/Rtmp4W5Qhw/model-591c77412a98.stan', line 21, column 4 to column 39)  
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## Chain 1 Iteration: 100 / 2000 [ 5%] (Warmup)   
## Chain 1 Iteration: 200 / 2000 [ 10%] (Warmup)   
## Chain 1 Iteration: 300 / 2000 [ 15%] (Warmup)   
## Chain 1 Iteration: 400 / 2000 [ 20%] (Warmup)   
## Chain 1 Iteration: 500 / 2000 [ 25%] (Warmup)   
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## Chain 1 Iteration: 700 / 2000 [ 35%] (Warmup)   
## Chain 1 Iteration: 800 / 2000 [ 40%] (Warmup)   
## Chain 1 Iteration: 900 / 2000 [ 45%] (Warmup)   
## Chain 1 Iteration: 1000 / 2000 [ 50%] (Warmup)   
## Chain 1 Iteration: 1001 / 2000 [ 50%] (Sampling)   
## Chain 1 Iteration: 1100 / 2000 [ 55%] (Sampling)   
## Chain 1 Iteration: 1200 / 2000 [ 60%] (Sampling)   
## Chain 1 Iteration: 1300 / 2000 [ 65%] (Sampling)   
## Chain 1 Iteration: 1400 / 2000 [ 70%] (Sampling)   
## Chain 1 Iteration: 1500 / 2000 [ 75%] (Sampling)   
## Chain 1 Iteration: 1600 / 2000 [ 80%] (Sampling)   
## Chain 1 Iteration: 1700 / 2000 [ 85%] (Sampling)   
## Chain 1 Iteration: 1800 / 2000 [ 90%] (Sampling)   
## Chain 1 Iteration: 1900 / 2000 [ 95%] (Sampling)   
## Chain 1 Iteration: 2000 / 2000 [100%] (Sampling)   
## Chain 1 finished in 6.1 seconds.  
## Chain 2 Iteration: 1 / 2000 [ 0%] (Warmup)   
## Chain 2 Iteration: 100 / 2000 [ 5%] (Warmup)   
## Chain 2 Iteration: 200 / 2000 [ 10%] (Warmup)

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## Chain 2 Iteration: 400 / 2000 [ 20%] (Warmup)   
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## Chain 2 Iteration: 600 / 2000 [ 30%] (Warmup)   
## Chain 2 Iteration: 700 / 2000 [ 35%] (Warmup)   
## Chain 2 Iteration: 800 / 2000 [ 40%] (Warmup)   
## Chain 2 Iteration: 900 / 2000 [ 45%] (Warmup)   
## Chain 2 Iteration: 1000 / 2000 [ 50%] (Warmup)   
## Chain 2 Iteration: 1001 / 2000 [ 50%] (Sampling)   
## Chain 2 Iteration: 1100 / 2000 [ 55%] (Sampling)   
## Chain 2 Iteration: 1200 / 2000 [ 60%] (Sampling)   
## Chain 2 Iteration: 1300 / 2000 [ 65%] (Sampling)   
## Chain 2 Iteration: 1400 / 2000 [ 70%] (Sampling)   
## Chain 2 Iteration: 1500 / 2000 [ 75%] (Sampling)   
## Chain 2 Iteration: 1600 / 2000 [ 80%] (Sampling)   
## Chain 2 Iteration: 1700 / 2000 [ 85%] (Sampling)   
## Chain 2 Iteration: 1800 / 2000 [ 90%] (Sampling)   
## Chain 2 Iteration: 1900 / 2000 [ 95%] (Sampling)   
## Chain 2 Iteration: 2000 / 2000 [100%] (Sampling)   
## Chain 2 finished in 1.1 seconds.  
## Chain 3 Iteration: 1 / 2000 [ 0%] (Warmup)

## Chain 3 Informational Message: The current Metropolis proposal is about to be rejected because of the following issue:  
## Chain 3 Exception: gamma\_lpdf: Shape parameter[1] is nan, but must be positive finite! (in 'C:/Users/morga/AppData/Local/Temp/Rtmp4W5Qhw/model-591c77412a98.stan', line 21, column 4 to column 39)  
## Chain 3 If this warning occurs sporadically, such as for highly constrained variable types like covariance matrices, then the sampler is fine,  
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## Chain 3   
## Chain 3 Informational Message: The current Metropolis proposal is about to be rejected because of the following issue:  
## Chain 3 Exception: gamma\_lpdf: Shape parameter[3] is inf, but must be positive finite! (in 'C:/Users/morga/AppData/Local/Temp/Rtmp4W5Qhw/model-591c77412a98.stan', line 21, column 4 to column 39)  
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## Chain 3   
## Chain 3 Informational Message: The current Metropolis proposal is about to be rejected because of the following issue:  
## Chain 3 Exception: gamma\_lpdf: Shape parameter[5] is inf, but must be positive finite! (in 'C:/Users/morga/AppData/Local/Temp/Rtmp4W5Qhw/model-591c77412a98.stan', line 21, column 4 to column 39)  
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## Chain 3 Iteration: 100 / 2000 [ 5%] (Warmup)   
## Chain 3 Iteration: 200 / 2000 [ 10%] (Warmup)   
## Chain 3 Iteration: 300 / 2000 [ 15%] (Warmup)   
## Chain 3 Iteration: 400 / 2000 [ 20%] (Warmup)   
## Chain 3 Iteration: 500 / 2000 [ 25%] (Warmup)   
## Chain 3 Iteration: 600 / 2000 [ 30%] (Warmup)   
## Chain 3 Iteration: 700 / 2000 [ 35%] (Warmup)   
## Chain 3 Iteration: 800 / 2000 [ 40%] (Warmup)   
## Chain 3 Iteration: 900 / 2000 [ 45%] (Warmup)   
## Chain 3 Iteration: 1000 / 2000 [ 50%] (Warmup)   
## Chain 3 Iteration: 1001 / 2000 [ 50%] (Sampling)   
## Chain 3 Iteration: 1100 / 2000 [ 55%] (Sampling)   
## Chain 3 Iteration: 1200 / 2000 [ 60%] (Sampling)   
## Chain 3 Iteration: 1300 / 2000 [ 65%] (Sampling)   
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## Chain 3 Iteration: 1700 / 2000 [ 85%] (Sampling)   
## Chain 3 Iteration: 1800 / 2000 [ 90%] (Sampling)   
## Chain 3 Iteration: 1900 / 2000 [ 95%] (Sampling)   
## Chain 3 Iteration: 2000 / 2000 [100%] (Sampling)   
## Chain 3 finished in 0.4 seconds.  
## Chain 4 Iteration: 1 / 2000 [ 0%] (Warmup)

## Chain 4 Informational Message: The current Metropolis proposal is about to be rejected because of the following issue:  
## Chain 4 Exception: gamma\_lpdf: Shape parameter[1] is 0, but must be positive finite! (in 'C:/Users/morga/AppData/Local/Temp/Rtmp4W5Qhw/model-591c77412a98.stan', line 21, column 4 to column 39)  
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## Chain 4 Exception: gamma\_lpdf: Shape parameter[2] is 0, but must be positive finite! (in 'C:/Users/morga/AppData/Local/Temp/Rtmp4W5Qhw/model-591c77412a98.stan', line 21, column 4 to column 39)  
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## Chain 4 Iteration: 200 / 2000 [ 10%] (Warmup)   
## Chain 4 Iteration: 300 / 2000 [ 15%] (Warmup)   
## Chain 4 Iteration: 400 / 2000 [ 20%] (Warmup)   
## Chain 4 Iteration: 500 / 2000 [ 25%] (Warmup)

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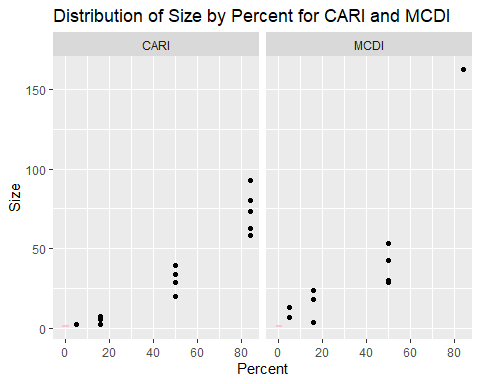
## Chain 4 Iteration: 600 / 2000 [ 30%] (Warmup)   
## Chain 4 Iteration: 700 / 2000 [ 35%] (Warmup)   
## Chain 4 Iteration: 800 / 2000 [ 40%] (Warmup)   
## Chain 4 Iteration: 900 / 2000 [ 45%] (Warmup)   
## Chain 4 Iteration: 1000 / 2000 [ 50%] (Warmup)   
## Chain 4 Iteration: 1001 / 2000 [ 50%] (Sampling)   
## Chain 4 Iteration: 1100 / 2000 [ 55%] (Sampling)   
## Chain 4 Iteration: 1200 / 2000 [ 60%] (Sampling)   
## Chain 4 Iteration: 1300 / 2000 [ 65%] (Sampling)   
## Chain 4 Iteration: 1400 / 2000 [ 70%] (Sampling)   
## Chain 4 Iteration: 1500 / 2000 [ 75%] (Sampling)   
## Chain 4 Iteration: 1600 / 2000 [ 80%] (Sampling)   
## Chain 4 Iteration: 1700 / 2000 [ 85%] (Sampling)   
## Chain 4 Iteration: 1800 / 2000 [ 90%] (Sampling)   
## Chain 4 Iteration: 1900 / 2000 [ 95%] (Sampling)   
## Chain 4 Iteration: 2000 / 2000 [100%] (Sampling)   
## Chain 4 finished in 2.0 seconds.  
##   
## All 4 chains finished successfully.  
## Mean chain execution time: 2.4 seconds.  
## Total execution time: 10.4 seconds.

## Warning: 679 of 4000 (17.0%) transitions hit the maximum treedepth limit of 10.  
## See https://mc-stan.org/misc/warnings for details.

precis(mod3gamma, depth = 2)

## mean sd 5.5% 94.5% rhat ess\_bulk  
## a[1] 1.86996135 0.164597086 1.60411780 2.12091675 1.005125 369.7653  
## a[2] 1.48399451 0.182138972 1.19142005 1.77061495 1.002406 1146.0536  
## b[1] 0.03745099 0.002643394 0.03334279 0.04163828 1.003874 434.7260  
## b[2] 0.03376394 0.002398438 0.03001366 0.03765141 1.001411 1184.6206  
## scale 1.46526570 0.240851786 1.12245755 1.87945480 1.003006 1376.4444

posts = extract.samples(mod3gamma)  
  
posts\_table = tibble(a1 = posts$a[,1],  
 a2 = posts$a[,2],  
 b1 = posts$b[,1],  
 b2 = posts$b[,2]) %>%   
 mutate(iter = 1:nrow(.))  
  
post\_preds = posts\_table %>%   
 filter(iter <= 100) %>%  
 expand\_grid(percent = seq(-1.2, 2)) %>%   
 mutate(size = a2 + b2\*percent)  
  
ggplot(data = selected\_sites %>% filter(site %in% c("CARI", "MCDI")), aes(x = percent, y = size)) +  
 geom\_point() +  
 geom\_line(data = post\_preds, aes(group = iter), color="pink", alpha = 0.2,) +  
 facet\_wrap(~site) + # Create separate panels for each site  
 labs(title = "Distribution of Size by Percent for CARI and MCDI",  
 x = "Percent",  
 y = "Size") # Add titles and labels

 MCDI is a NEON site in Flint Hills region of Kansas south of Manhattan, KS. CARI is a NEON site in central Alaska at the CPCRW northeast of Fairbanks, Alaska. This examines the interaction of the size of substrate present in total sample percent between sites MCDI and CARI. The data is not standardized and was put into a gamma distribution. The data falls into a gamma distribution because the occurrences are independent and the average occurrences remain the same from unit to unit. Not only that but the possible occurrences are not limited to a fixed number.

mod3gamma uses a mu of 35 and a scale 5 to simulate a gamma distribution. The scale of the distribution was 10 because there is a generally some dispersion of the data of the size of sediment. MCDI and CARI both have a positive relationship, MCDI mean change is 1.86 while CARI mean change is 1.50. We can say with 89% confidence that the mean change is between 1.59 and 2.12 at MCDI. We can say with 89% confidence that the mean change at CARI is between 1.22 and 1.77. rhat values are all 1 letting us know that the chains have likely converged. The scale parameter is 1.48 informing us that the model has a generally narrow, the model is confident about the scale estimate. We can say with 89% confidence that the scale is somewhere between 1.12 and 1.89.

This relationship makes biological sense as it should be positive. It should be a positive relationship as you go along the x-axis it encompasses more of the samples for that given site. The rate in which it increases tells us that MCDI has more larger substrate (cobbles) than CARI. CARI has more finer substrate than MCDI. Geologically speaking this also makes sense as CARI is located in Alaska while MCDI is located in Kansas. These streams have very different geological process affecting them as well as human activity, MAT, and MAP. CARI. We would expect this kind of substrate at CARI to have glacial till and for soil to be affected by permafrost thaws. This is hard to examine looking at NEON images of this site in particular due to the water level. At MCDI you can see that generally where they survey the stream it has high banks on one side and what appears to be gravel or small cobbles on the other bank.