Here is the Jags file for Model 1:

model {

for (i in 1:length(cost)) {

cost[i] ~ dnorm(beta\_intercept +

beta\_homeowner\*owner[i] +

beta\_married\*married[i] +

beta\_age\*age[i],

sigmasqinv)

cost\_rep[i] ~ dnorm(beta\_intercept +

beta\_homeowner\*owner[i] +

beta\_married\*married[i] +

beta\_age\*age[i],

sigmasqinv)

}

beta\_intercept ~ dnorm(0,0.00000001)

beta\_homeowner ~ dnorm(0,0.00000001)

beta\_married ~ dnorm(0,0.00000001)

beta\_age ~ dnorm(0,0.00000001)

sigmasqinv ~ dgamma(0.0001,0.0001)

sigmasq <- 1/sigmasqinv

}

Here is the Jags file for Model 2:

model {

for (i in 1:length(cost)) {

cost[i] ~ dnorm(beta\_intercept +

beta\_age\*age[i],

sigmasqinv)

cost\_rep[i] ~ dnorm(beta\_intercept +

beta\_age\*age[i],

sigmasqinv)

}

beta\_intercept ~ dnorm(0,0.00000001)

beta\_age ~ dnorm(0,0.00000001)

sigmasqinv ~ dgamma(0.0001,0.0001)

sigmasq <- 1/sigmasqinv

}

Here is the Jags file for Model 3:

model {

for (i in 1:length(num\_quotes)) {

num\_quotes[i] ~ dpois(lambda[i])

log(lambda[i]) <- logtime +

beta\_intercept +

beta\_cost\*cost\_scaled[i]

num\_quotes\_rep[i] ~ dpois(lambda[i])

}

beta\_intercept ~ dnorm(0,0.0001)

beta\_cost ~ dnorm(0,0.0001)

}