

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)
}
```