run the zero-inflated poisson model. We use the pscl package.

Though we can run a Poisson regression in R using the glm function in one of the core packages, we need another package to

summary(m1 <- zeroinfl(count ~ child + camper | persons, da</pre>

```
##
## Call:
## zeroinfl(formula = count ~ child + camper | persons, dat
##
## Pearson residuals:
## Min 1Q Median 3Q Max
## -1.237 -0.754 -0.608 -0.192 24.085
```

```
## Count model coefficients (poisson with log link):

## Estimate Std. Error z value Pr(>|z|)

## (Intercept) 1.5979 0.0855 18.68 <2e-16 ***

## child -1.0428 0.1000 -10.43 <2e-16 ***

## camper1 0.8340 0.0936 8.91 <2e-16 ***
```

```
## Zero-inflation model coefficients (binomial with logit 1)
## Estimate Std. Error z value Pr(>|z|)
## (Intercept) 1.297 0.374 3.47 0.00052 ***
## persons -0.564 0.163 -3.46 0.00053 ***
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1
##
## Number of iterations in BFGS optimization: 12
## Log-likelihood: -1.03e+03 on 5 Df
```

- Below the model call, you will find a block of output containing Poisson regression coefficients for each of the variables along with standard errors, z-scores, and p-values for the coefficients.
- A second block follows that corresponds to the inflation model.
- ► This includes logit coefficients for predicting excess zeros along with their standard errors, z-scores, and p-values.