

6.2 Poisson

Chris Parrish

July 3, 2016

Contents

Poisson **1**

6.2 Poisson

reference:

- ARM chapter 06, github

```
library(rstan)
rstan_options(auto_write = TRUE)
options(mc.cores = parallel::detectCores())
library(ggplot2)
```

Poisson

```
## Read in the data

#FIXME:missing data files?

## Model fitting

# constant term
# glm (stops ~ 1, family=poisson, offset=log(arrests))

# ethnicity indicator
# glm (stops ~ factor(eth), family=poisson, offset=log(arrests))

# ethnicity & precincts indicators
# glm (stops ~ factor(eth) + factor(precints) , family=poisson, offset=log(arrests))

# overdispersion
# glm (stops ~ factor(eth) + factor(precints) , family=quasipoisson, offset=log(arrests))
```