Multinomial Logistic Regression with R

2 low 31 academic 0.10717 ## 3 low 32 academic 0.11650 ## 4 low 33 academic 0.12646 ## 5 low 34 academic 0.13705 ## 6 low 35 academic 0.14828

```
## melt data set to long for ggplot2
lpp <- melt(pp.write, id.vars = c("ses", "write"), value.
head(lpp) # view first few rows

## ses write variable probability
## 1 low 30 academic 0.09844</pre>
```

Multinomial Logistic Regression with R

```
## plot predicted probabilities across write values
## facetted by program type
ggplot(lpp, aes(x = write, y = probability, colour = ses)
... scales = "free")
```

Ordinal Logistic Regression with R

ggplot(dat, aes(x = apply, y = gpa)) +

```
geom_boxplot(size = .75) +
geom_jitter(alpha = .5) +
facet_grid(pared ~ public, margins = TRUE) +
theme(axis.text.x = element_text(angle = 45, hjust = 1,
```

Poisson Regression with R

```
with(p, tapply(num_awards, prog, function(x) {
   sprintf("M (SD) = %1.2f (%1.2f)", mean(x), sd(x))
}))
```

Poisson Regression with R

```
## General Academic
## "M (SD) = 0.20 (0.40)" "M (SD) = 1.00 (1.28)" "M (SD)

ggplot(p, aes(num_awards, fill = prog)) +
   geom_histogram(binwidth=.5, position="dodge")
```

Negative Binomial Regression with R

```
ggplot(dat, aes(daysabs, fill = prog)) + geom_histogram(b
    ., margins = TRUE, scales = "free")
```