

My title*

My subtitle if needed

First author

Another author

February 12, 2024

First sentence. Second sentence. Third sentence. Fourth sentence.

1 Introduction

You can and should cross-reference sections and sub-sections.

The remainder of this paper is structured as follows. Section [2](#)....

2 Data

The raw data was achieved from a paper “<https://www.aeaweb.org/articles?id=10.1257/pandp.20201118>”. All improper variables were removed during the data-cleaning process for accurate results. The statistics of all police officers have been separated into each race/gender group to analyze factors of the award nomination.

Groups	all_birth_year	all_training	all_complain	all_arrest	all_observation
Everyone	1981.508	36.23965	2.608746	153.2688	1715
White	1982.400	35.31071	2.666667	166.0190	840
Black	1979.535	39.56738	2.734043	131.1631	282
Male	1981.737	35.76844	2.804237	164.8079	1369
Female	1980.601	38.10405	1.835260	107.6127	346

Table

According to the TABLE 1 [Table 1— Baseline Characteristics] ...

*Code and data are available at: [LINK](#).

Talk way more about it.

3 Model

3.1 Model set-up

Original Model

$$y_{it} = \beta_0 + \beta_1 Black_i + \beta_2 Female_i + \beta_3 Hispanic_i \quad (1)$$

$$+ \beta_4 Asian_i + \beta_5 NatAm_i + X_{it} + u_{it} \quad (2)$$

Call:

```
lm(formula = awd_perf ~ Black + Female + Hisp + Asian + Natam,  
    data = all_officer_year)
```

Coefficients:

(Intercept)	Black	Female	Hisp	Asian	Natam
37.583	-10.368	-12.826	-5.157	-16.785	9.624

Model 1

$$y = \beta_0 + \beta_1 Black_i + \beta_2 Female_i + \beta_3 Hispanic_i \quad (3)$$

$$+ \beta_4 Asian_i + \epsilon \quad (4)$$

Call:

```
lm(formula = awd_perf ~ Black + Female + Hisp + Asian, data = all_officer_year)
```

Coefficients:

(Intercept)	Black	Female	Hisp	Asian
37.626	-10.416	-12.813	-5.204	-16.831

3.1.1 Model justification

We expect a positive relationship between the size of the wings and time spent aloft. In particular...

We can use maths by including latex between dollar signs, for instance θ .

4 Results

Our results are summarized in `?@tbl-modelresults`.

5 Discussion

5.1 First discussion point

If my paper were 10 pages, then should be at least 2.5 pages. The discussion is a chance to show off what you know and what you learnt from all this.

5.2 Second discussion point

5.3 Third discussion point

5.4 Weaknesses and next steps

Weaknesses and next steps should also be included.

Appendix

A Additional data details

B Model details

B.1 Posterior predictive check

Examining how the model fits, and is affected
by, the data

Figure 1: ?(caption)

B.2 Diagnostics

?@fig-stanareyouokay-1 is a trace plot. It shows... This suggests...

?@fig-stanareyouokay-2 is a Rhat plot. It shows... This suggests...

Checking the convergence of the MCMC
algorithm

Figure 2: ?(caption)

C References