Are people really struggling to find a job?*

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

1 Introduction

You can and should cross-reference sections and sub-sections. We use R Core Team (2023) and Wickham et al. (2019).

^{*}Code and data are available at: LINK

2 Data

Youth Unemployment by Education Level Over Time 25 education_level Youth Unemployment Rate (%) 0 to 8 years Above bachelor's degree Bachelor's degree High school graduate Postsecondary certificate or diploma Some high school Some postsecondary Total, all education levels University degree 2019 2020 2021 2022 2023 Year

Figure 1: Unemployment Rates

Youth Employment by Education Level Over Time 80 education_level Youth Unemployment Rate (%) 0 to 8 years Above bachelor's degree Bachelor's degree High school graduate Postsecondary certificate or diploma Some high school Some postsecondary Total, all education levels University degree 2019 2020 2021 2022 2023

Figure 2: Employment Rates

Talk way more about it.

3 Model

The goal of our modelling strategy is twofold. Firstly,...

Year

Here we briefly describe the Bayesian analysis model used to investigate... Background details and diagnostics are included in

3.1 Model set-up

Define y_i as the number of seconds that the plane remained a loft. Then β_i is the wing width and γ_i is the wing length, both measured in millimeters.

$$y_i|\mu_i, \sigma \sim \text{Normal}(\mu_i, \sigma)$$
 (1)

$$\mu_i = \alpha + \beta_i + \gamma_i \tag{2}$$

$$\alpha \sim \text{Normal}(0, 2.5)$$
 (3)

$$\beta \sim \text{Normal}(0, 2.5)$$
 (4)

$$\gamma \sim \text{Normal}(0, 2.5)$$
 (5)

$$\sigma \sim \text{Exponential}(1)$$
 (6)

We run the model in R (R Core Team 2023) using the rstanarm package of Goodrich et al. (2022). We use the default priors from rstanarm.

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 Table 1.

5 Discussion

5.1 First discussion point

If my paper were 10 pages, then should be 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.

Table 1: Explanatory models of flight time based on wing width and wing length

	First model
(Intercept)	1.12
	(1.70)
length	0.01
	(0.01)
width	-0.01
	(0.02)
Num.Obs.	19
R2	0.320
R2 Adj.	0.019
Log.Lik.	-18.128
ELPD	-21.6
ELPD s.e.	2.1
LOOIC	43.2
LOOIC s.e.	4.3
WAIC	42.7
RMSE	0.60

References

Goodrich, Ben, Jonah Gabry, Imad Ali, and Sam Brilleman. 2022. "Rstanarm: Bayesian Applied Regression Modeling via Stan." https://mc-stan.org/rstanarm/.

R Core Team. 2023. R: A Language and Environment for Statistical Computing. Vienna, Austria: R Foundation for Statistical Computing. https://www.R-project.org/.

Wickham, Hadley, Mara Averick, Jennifer Bryan, Winston Chang, Lucy D'Agostino McGowan, Romain François, Garrett Grolemund, et al. 2019. "Welcome to the tidyverse." *Journal of Open Source Software* 4 (43): 1686. https://doi.org/10.21105/joss.01686.