

# Week 3 Marriage Licenses\*

## Data Analysis

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The changes in the number of marriage licenses during different time periods

## 1 Introduction

You can and should cross-reference sections and sub-sections. We use R Core Team (2023), Gelfand (2022), and Wickham et al. (2019).

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

## 2 Data

Some of our data is of penguins (Figure [1](#)), from Horst, Hill, and Gorman (2020).

Talk more about it.

And also planes ([?@fig-planes](#)). (You can change the height and width, but don't worry about doing that until you have finished every other aspect of the paper - Quarto will try to make it look nice and the defaults usually work well once you have enough text.)

From the Gelfand (2022) data we see that after the pandemic, the marriage license is more spread out and volatile on the ggplot compared to the data before COVID. Therefore, we can imply that the pandemic did impact the number of marriage licenses.

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

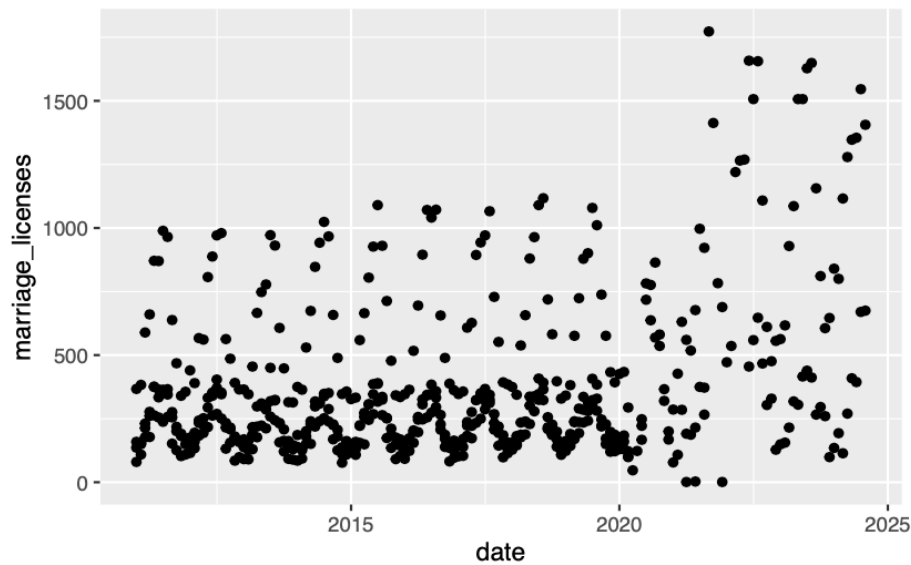


Figure 1: Bills of penguins

### 3 Discussion

#### 3.1 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.

#### 3.2 Second discussion point

#### 3.3 Third discussion point

#### 3.4 Weaknesses and next steps

Weaknesses and next steps should also be included.

## **Appendix**

### **A Additional data details**

## References

- Gelfand, Sharla. 2022. *Opendatatoronto: Access the City of Toronto Open Data Portal*. <https://CRAN.R-project.org/package=opendatatoronto>.
- Horst, Allison Marie, Alison Presmanes Hill, and Kristen B Gorman. 2020. *Palmerpenguins: Palmer Archipelago (Antarctica) Penguin Data*. <https://doi.org/10.5281/zenodo.3960218>.
- 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>.