# Analysis of Toronto Marriage on Time Base*

Bell He

September 19, 2024

> This document presents an analysis of marriage license statistics in Toronto recoded with time The analysis includes a time series graph of marriage licenses issued over time, grouped by civic center.

## 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).

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.

---
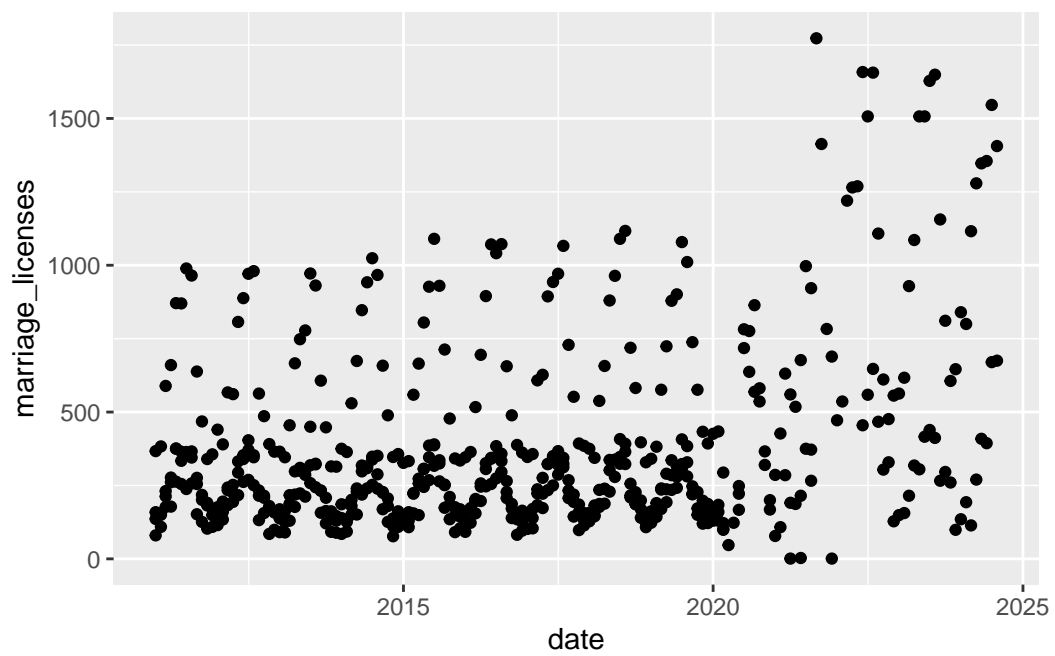
*Code and data are available at: https://github.com/iJustinn/Demonstration_Exercise.

Figure 1: Bills of penguins