My title*

My subtitle if needed

Richard Guo

November 28, 2024

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

1 Introduction

Overview paragraph

Estimand paragraph

Results paragraph

Why it matters paragraph

Telegraphing paragraph: The remainder of this paper is structured as follows. Section 2….

2 Data

2.1 Overview

The data used in this paper is derived from Open Data Toronto and is read into this paper through the opendatatoronto library (Gelfand 2022). The particular data set used to analyze the observations made by city staff on the conditions of all guarded Toronto beaches between the months of May and September(Toronto Department of Parks, Forestry and Recreation 2024). All the data analysis was done through R (R Core Team 2023) with the aid of the following packages: tidyverse (Wickham et al. 2019), fastDummies(Kaplan 2023), here (Müller 2020), dplyr (Hadley Wickham 2023), tibble (R. F. Kirill Müller Hadley Wickham 2023), janitor (Sam Firke 2023), ggplot2 (Wickham 2016), and knitr (Xie 2023 Overview text

*Code and data are available at: https://github.com/Richard-Guo1/water-fowl-in-toronto-beaches.

References

Kaplan, Jacob. 2023. *fastDummies: Fast Creation of Dummy (Binary) Columns and Rows from Categorical Variables*.

Müller, Kirill. 2020. *Here*.

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

Toronto Department of Parks, Forestry and Recreation. 2024. *Toronto Beach Observations*. https://open.toronto.ca/dataset/toronto-beaches-observations/.

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.