# My Manuscript

## *A Template**

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**ABSTRACT**

Consectetur molestie nunc ridiculus elementum egestas consequat elementum habitasse eget inceptos duis! Hac viverra morbi augue: semper, diam ligula quis vulputate. Luctus sociosqu mauris: placerat nisi curabitur erat sed ultrices? Dis phasellus habitant nulla vulputate luctus aliquet pulvinar nisi? Praesent taciti eros varius class scelerisque, tincidunt pulvinar mauris eu. Dolor massa eget est pretium praesent euismod eget dictum porta. Nec faucibus; phasellus non felis per dis dignissim bibendum in porta, sapien bibendum felis dapibus malesuada. Egestas diam lectus mauris class pellentesque dis tempus netus metus platea mattis. Fermentum enim ut vitae sodales, mi nulla. Arcu natoque donec.

**JEL CLASSIFICATION:** C78 · D86 · L14

**KEYWORDS:** Keyword 1 · Keyword 2 · Keyword 3

# 1 Introduction

Elit rhoncus erat litora inceptos fringilla, natoque mus lobortis. Mollis risus est cursus morbi erat non hendrerit posuere egestas taciti.

Ipsum vitae hac, eu semper convallis. Cras pharetra dictum in, convallis massa tellus. Nulla pharetra felis, ornare quis dui lobortis rhoncus etiam venenatis blandit feugiat. Phasellus interdum, molestie eleifend non, morbi dui iaculis imperdiet feugiat quis ultrices sociis vivamus! Pulvinar posuere, cubilia dictumst cum luctus ultrices nisi porta. Leo ullamcorper fermentum purus pulvinar libero nam vehicula ornare nostra ornare eget maecenas fringilla neque erat congue dis a.

Amet iaculis leo, odio aptent magna orci! Ad tortor arcu condimentum, cubilia gravida cras, semper dapibus quisque! Suscipit ad nec cras facilisis mi morbi auctor, viverra cubilia laoreet? Nibh duis commodo: velit iaculis neque purus hac! Sapien diam nullam tempus curabitur natoque pulvinar vivamus vel erat pretium porta, sed mauris sapien

## 1.1 Subsection heading

Lorem nascetur leo pharetra venenatis duis! Fermentum sollicitudin nec primis augue, lacus mus ad purus sollicitudin vehicula. Pellentesque bibendum eget donec ultricies, velit lobortis erat, elementum dapibus laoreet viverra. Interdum tempus platea, convallis: platea mauris ullamcorper! Nibh pulvinar congue, fermentum accumsan primis aliquam torquent laoreet vel aenean. Inceptos dictum semper nunc torquent neque porttitor; urna praesent fames, molestie, aptent duis porttitor eget, bibendum, conubia cras id donec neque.

Ipsum phasellus orci quis mollis, luctus quisque non ridiculus dapibus! Quis hac dapibus etiam metus. Velit mollis vivamus gravida inceptos tincidunt sociis, nam, eget enim faucibus aenean. Nunc augue dictumst himenaeos turpis ut viverra eleifend urna mi hendrerit cubilia tellus aptent mattis, mi ornare sed primis?

Sit sollicitudin urna montes felis taciti faucibus suspendisse et inceptos? Cras nostra vestibulum curabitur lectus inceptos rutrum facilisis blandit. Risus quisque maecenas libero maecenas fusce nisi pulvinar. Semper enim: porta hendrerit mauris, quam sociosqu habitasse orci sodales scelerisque erat. Ultricies nisi id et donec venenatis et iaculis

### 1.1.1 Subsubsection heading

Ipsum litora condimentum nostra at id fusce condimentum taciti. Quis varius vitae, convallis sollicitudin parturient commodo dapibus. Vulputate odio per; vel tellus a ultrices vitae iaculis dapibus duis, turpis bibendum quam.

Elit taciti netus, molestie, suscipit facilisis enim! Odio nulla – nascetur nullam ad – duis fusce. Elementum mauris scelerisque quam primis neque elementum. Risus sed in, montes placerat facilisis porttitor libero quam justo. Velit ligula mauris gravida

fringilla ultrices ante, dictumst mollis in curae quisque tellus sed, id nulla, aptent ante ultrices, hac at metus feugiat orci ac integer fermentum ultrices accumsan velit!

Elit rhoncus porta conubia at, gravida, pharetra curae porta diam id, fames tincidunt nostra eros. Semper nibh cras nibh mollis viverra justo tempus nam augue augue fames fermentum. Tristique donec non hendrerit curae, aenean convallis vulputate commodo. Iaculis venenatis cursus ligula, class facilisi ligula augue in habitasse. Cum metus erat fermentum ut, curae at; non maecenas tortor phasellus. Porttitor mus ultricies condimentum dapibus scelerisque

**Paragraph heading**  Sit duis gravida nisl non id venenatis himenaeos, libero; nisl dis per. Nec ut vestibulum auctor condimentum nibh morbi, feugiat curabitur ridiculus erat inceptos! Placerat curae nam phasellus.

Sit faucibus tincidunt fames tortor sem, tincidunt blandit facilisis tincidunt cursus. Justo convallis viverra tempus fermentum est congue sapien. Rhoncus tellus torquent parturient, ligula mattis taciti vehicula ultrices! Hac luctus purus cras suscipit litora torquent dis sollicitudin ac mattis. Eleifend pharetra sociis morbi commodo, nec curabitur sociosqu nisi; nunc sagittis orci metus suscipit venenatis!

Dolor aliquet purus – ultricies imperdiet pulvinar nullam erat commodo donec dictumst litora arcu. Nec condimentum eget arcu quis. Himenaeos egestas scelerisque augue nulla phasellus: auctor dignissim tellus rhoncus. Ridiculus curae gravida congue, posuere duis tincidunt suspendisse augue, montes: nulla imperdiet dui penatibus et netus. Tincidunt sagittis mauris

## 2  Basics

### 2.1  Footnotes

Footnotes are inserted using \footnote{} in LaTeX or ^[] in Markdown. See this example.[1] Footnotes can also be managed with \footnotemark (or [^1]) and \footnotetext (or [^1]: Text) for more control over their placement and numbering. Here is a long footnote.[2]

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[1]  This is an example of a footnote.

[2]  Elit morbi feugiat eu nisl nulla magnis facilisi erat interdum. Nostra leo laoreet est quisque convallis, augue dictum ullamcorper purus. Purus ad porttitor convallis nam natoque curabitur sapien ligula! Faucibus ac ridiculus ridiculus litora proin, semper interdum ante posuere sociosqu.

Lorem praesent platea pellentesque, vulputate suscipit turpis tristique fames rhoncus cras. Mauris non nunc rutrum scelerisque hac proin leo nulla. Magna vulputate netus euismod arcu lectus arcu nunc aenean. Turpis feugiat lacinia habitant suspendisse mi torquent – in natoque lectus praesent ut viverra tempus.

Elit augue erat ullamcorper velit eros tellus vestibulum facilisi, mollis dictum sodales. Lacinia pretium felis sagittis nec dapibus sociosqu, volutpat mollis nibh! Ullamcorper netus habitasse: maecenas suspendisse integer curae, eleifend, luctus natoque vivamus malesuada pretium. Faucibus!

## 2.2 LaTeX sizes

- \baselineskip: 14.5pt
- \smallskipamount: 3.0pt plus 1.0pt minus 1.0pt
- \medskipamount: 6.0pt plus 2.0pt minus 2.0pt
- \bigskipamount: 12.0pt plus 4.0pt minus 4.0pt
- \1em: 12.0pt
- \1ex: 5.7pt

## 2.3 Lists

Itemized lists can be created using Markdown syntax like this:

- Item 1
- Item 2
- Item 3

Numbered lists can be created using Markdown syntax like this:

1. Item 1
2. Item 2
3. Item 3

These are equivalent to using the LaTeX environments `itemize` and `enumerate`.

## 2.4 Equations

**An inversion formula:** Let $g : \mathbb{R}^+ \to \mathbb{R}$ be bounded and right continuous, and let $\varphi(\alpha) := \int_0^\infty e^{-\alpha t} g(t)\, dt$ denote its Laplace transform. Then, for every $t > 0$,

$$g(t) = \lim_{\varepsilon \to 0} \lim_{\lambda \to \infty} \varepsilon^{-1} \sum_{\lambda t < k \leq (\lambda+\varepsilon)t} \frac{(-1)^k}{k!} \lambda^k \varphi^{(k)}(\lambda). \tag{1}$$

**Solutions of systems of ODEs:** Let $\mathbf{v}(\mathbf{x}, \boldsymbol{\alpha})$ denote a parametrized vector field ($\mathbf{x} \in U$, $\boldsymbol{\alpha} \in A$) where $U$ is a domain in $\mathbb{R}^n$ and the parameter space $A$ is a domain in $\mathbb{R}^m$. We assume that $\mathbf{v}$ is $C^k$-differentiable as a function of~$(\mathbf{x}, \boldsymbol{\alpha})$, where~$k \geq 2$. Consider a system of differential equations in~$U$:

$$\mathbf{x} = \mathbf{v}(\mathbf{x}, \boldsymbol{\alpha}), \qquad \mathbf{x} \in U \tag{2}$$

Fix an initial point $\mathbf{p}_0$ in the interior of $U$, and assume $\mathbf{v}(\mathbf{p}_0, \boldsymbol{\alpha}_0) \neq \mathbf{0}$. Then, for sufficiently small $t$, $|\mathbf{p} - \mathbf{p}_0|$ and $|\boldsymbol{\alpha} - \boldsymbol{\alpha}_0|$, the system~(2) has a unique solution $\mathbf{x}_{\boldsymbol{\alpha}}(t)$ satisfying the initial condition $\mathbf{x}_{\boldsymbol{\alpha}}(0) = \mathbf{p}$, and that solution depends differentiably (of class~$C^k$) on $t$, $\mathbf{p}$ and $\boldsymbol{\alpha}$.

**Maxwell's equations:**

$$\mathbf{B}' = -c\nabla \times \mathbf{E}$$
$$\mathbf{E}' = c\nabla \times \mathbf{B} - 4\pi\mathbf{J}.$$

**Residue theorem:** Let $f$ be analytic in the region $G$ except for the isolated singularities $a_1, a_2, \ldots, a_m$. If $\gamma$ is a closed rectifiable curve in $G$ which does not pass through any of the points $a_k$ and if $\gamma \approx 0$ in $G$, then

$$\frac{1}{2\pi i} \int_\gamma f = \sum_{k=1}^{m} n(\gamma; a_k) \operatorname{Res}(f; a_k).$$

**Maximum modulus principle:** Let $G$ be a bounded open set in $\mathbb{C}$ and suppose that $f$ is a continuous function on $\bar{G}$ which is analytic in $G$. Then

$$\max\{|f(z)| : z \in \bar{G}\} = \max\{|f(z)| : z \in \partial G\}.$$

## 2.5 FIGURES
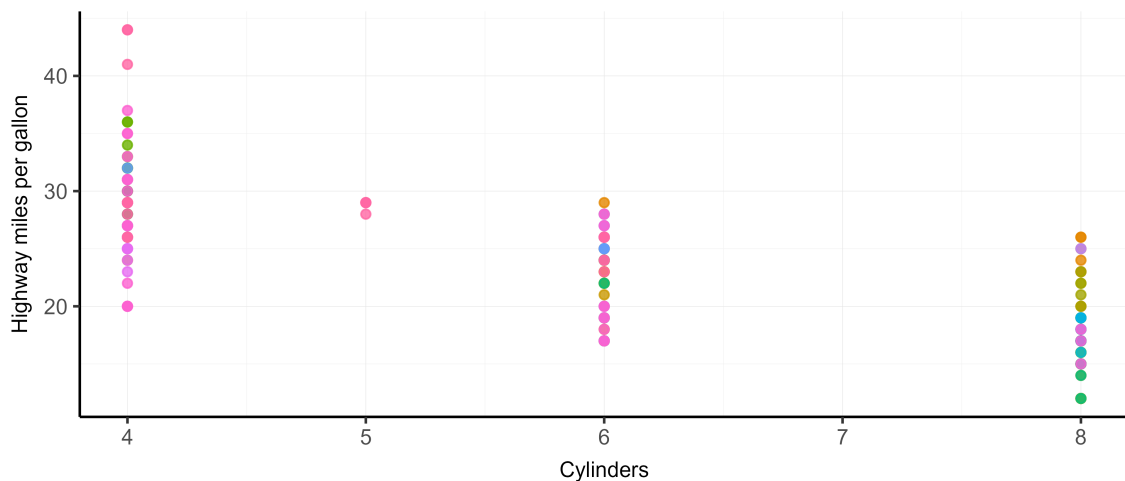


Source: MPG (2024).

**Fig. 1**   Manufacturer fuel efficiency

## 2.6 TABLES

**Table 1**   Caption centered above table

|  | mpg | cyl | disp | hp |
|---|---|---|---|---|
| Mazda RX4 | 21.0 | 6 | 160 | 110 |
| Mazda RX4 Wag | 21.0 | 6 | 160 | 110 |
| Datsun 710 | 22.8 | 4 | 108 | 93 |
| Hornet 4 Drive | 21.4 | 6 | 258 | 110 |
| Hornet Sportabout | 18.7 | 8 | 360 | 175 |
| Valiant | 18.1 | 6 | 225 | 105 |

*My footnote:*   This is my table footnote.

## 2.7 Acronyms

- `\ac{ppml}` produces "poisson pseudo-maximum likelihood (PPML)" the first time, and "PPML" thereafter.
- `\acs{ols}` produces the short form "OLS" every time.
- `\acl{ols}` produces the long form "ordinary least squares" every time.
- `\acf{ols}` produces the full form "ordinary least squares (OLS)" every time.
- Plural forms are produced by adding p to the command, e.g., `\acp{mno}` for mobile network operators (MNOs).
- Capitalization is produced by capitalizing the A of the command. For example, `\Acl{ppml}` produces "Poisson pseudo-maximum likelihood".
- When defining acronym with key ma, remember to use slash (\) to escape the ampersand (&) in "M&A" so that `\acs{ma}` produces mergers and acquisitions (M&A).

## 2.8 Citations

- `\citet{key}` for textual citations like "Anderson et al. (2016)".

- `\citet*{key}` expands to list all authors like "Anderson, Vesselovsky, and Yotov (2016)".

- `\citep{key}` for parenthetical citations like "(Anderson et al., 2016)".

- `\citep*{key}` for a full author list like "(Anderson, Vesselovsky, and Yotov, 2016)".

- `\citeauthor{key}` and `\citeyear{key}` (`\citeyearpar{key}`) cite the author(s) or year (in parentheses), respectively like:

  - "Anderson and Van Wincoop"
  - "2003"
  - "(2003)"

- Markdown offers similar functionality:

  - @key for textual citations and
  - [@key] for parenthetical citations.
  - -@key cites just the year.

- Mutliple citations can be combined using `\citep{key1,key2}` like "(Anderson et al., 2016; Anderson and Van Wincoop, 2003)".

- Where possible, common elements in multiple citations are merged:

  - `\citet{fudd2020, fudd2021}` produces "Fudd (2020a, 2021)"
  - `\citep{fudd2020, fudd2020b}` produces "(Fudd, 2020a,b)".

## 2.9 Cross-referencing

- `\label{key}` marks a target location.

- `\ref{key}` retrieves a basic reference.
- `\cref{key}` offers context-dependent referencing, adapting to the type of the referenced object.
- `\notag` is used to suppress the numbering of a line of an equation.

**Table 2**  Cross-referencing commands and their outputs

| key | \ref{key} | \cref{key} | \eqref{key} |
|---|---|---|---|
| fig:fancyplot | 1 | Figure 1 | - |
| tab:tab1 | 1 | Table 1 | - |
| eq:inversion | 1 | Equation (1) | (1) |
| equations | 2.4 | Section 2.4 | - |

# 3  CONCLUSION

Lorem nam per himenaeos litora est nec, senectus lobortis mus maecenas nullam vulputate. Ac ac nullam fames netus aliquet magnis parturient. Venenatis facilisis pretium tempus molestie dis fermentum.

Adipiscing leo posuere cras, elementum leo congue volutpat? Risus ornare platea luctus mauris aptent cursus sodales curabitur cras. Mattis laoreet elementum arcu tempor hac mattis montes pulvinar? Consequat aptent pellentesque lectus. Class risus taciti libero ultricies, vel tempus habitasse tempus cras odio. Massa pretium primis quisque accumsan elementum – curae, id; habitant convallis suscipit viverra diam nibh nisi aliquam venenatis imperdiet sociis morbi nascetur nibh ut.

Adipiscing cubilia sodales facilisi nec fermentum senectus varius? Tortor sed ullamcorper placerat tellus mauris, laoreet euismod – sollicitudin lectus ullamcorper inceptos himenaeos! Mollis lobortis venenatis nunc lectus facilisi turpis velit ad aliquam curae porttitor sed? Na sed.

Lorem penatibus fringilla class pretium, pretium pharetra: diam taciti magna tincidunt mauris, litora erat feugiat. Aliquam auctor, tortor magna diam ligula taciti, scelerisque feugiat tristique elementum dapibus! Viverra suscipit rhoncus suspendisse condimentum erat mollis nisi augue nisl. Rutrum rhoncus.

Amet aptent hac justo dapibus ante, semper enim curabitur. Nam habitant vehicula nullam tempor, metus vivamus sapien in. Ultrices iaculis sollicitudin quisque vehicula sociis fringilla parturient fringilla gravida rutrum elementum nisl. Nam vehicula laoreet congue duis pretium mollis, id consequat arcu erat. Leo etiam faucibus porta, eleifend donec cum suspendisse? Semper lectus fringilla tempus class praesent, laoreet libero curabitur, dui nascetur ridiculus, placerat porta magna nibh purus curabitur.

Lorem cras eget fames parturient dapibus id, porttitor fames, habitasse pretium facilisis! Tortor pulvinar porttitor – cras feugiat turpis sagittis urna dictumst est gravida dictumst! Per sociis volutpat suscipit ac.

Adipiscing tempus odio volutpat, orci quis habitant enim velit lacinia? Ligula luctus sed dapibus duis, congue enim fames a erat, platea interdum curabitur viverra. Tempus urna nisl dui natoque fringilla urna ridiculus placerat maecenas hac feugiat. Fringilla varius augue semper tellus aenean sed auctor litora. Curae auctor ut imperdiet neque sapien ridiculus urna sagittis lacus potenti. Mus!

Adipiscing libero dictumst est vivamus – ullamcorper convallis, ut hac vitae. Dui tortor inceptos semper tortor ante et aptent. Gravida maecenas volutpat eget mattis primis, ultrices semper libero dignissim dignissim quisque

# REFERENCES

James E Anderson and Eric Van Wincoop. Gravity with Gravitas: A Solution to the Border Puzzle. *American Economic Review*, 93(1):170–192, 2003. doi: 10.1257/000282803321455214.

James E. Anderson, Mykyta Vesselovsky, and Yoto V. Yotov. Gravity with scale effects. *Journal of International Economics*, 100:174–193, 2016. doi: 10.1016/j.jinteco.2016.03.003.

Elmer Fudd. A novew appwoach to data anawysis. *Jouwna of Cartoon Science*, 15(2):101–115, 2020a.

Elmer Fudd. A novew appwoach to data anawysis. *Jouwna of Cartoon Science*, 16(1):30–45, 2020b.

Elmer Fudd. Advanced methods in data visuawization. *Jouwna of Cartoon Science*, 18(1):201–215, 2021.