# **Short Paper**

A Short Subtitle

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2025-01-29

This is the abstract. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Vestibulum augue turpis, dictum non malesuada a, volutpat eget velit. Nam placerat turpis purus, eu tristique ex tincidunt et. Mauris sed augue eget turpis ultrices tincidunt. Sed et mo in in the middle leo porta egestas. Aliquam non laoreet velit. Nunc quis ex vitae eros aliquet auctor nec ac libero. Duis laoreet sapien eu mi luctus, in bibendum leo molestie. Sed hendrerit diam diam, ac dapibus nisl volutpat vitae. Aliquam bibendum varius libero, eu efficitur justo rutrum at. Sed at tempus elit. I have added some text.

#### Here are some computations

I am using an R chunk here:

```
source("demo_function.R")
calculate_average(1, 4)
```

[1] 2.5 [1] 250

Please make sure that your manuscript follows the guidelines in the Guide for Authors of the relevant journal. It is not necessary to typeset your manuscript in exactly the same way as an article, unless you are submitting to a camera-ready copy (CRC) journal.

For detailed instructions regarding the elsevier article class, see

#### Bibliography styles

Here are two sample references: Feynman and Vernon Jr. (1963) Dirac (1953).

With this template using elsevier class, natbib will be used. Three bibliographic style files (\*.bst) are provided and their use controlled by cite-style option:

- citestyle: number (default) will use elsarticle-num.bst can be used for the numbered scheme
- citestyle: numbername will use elsarticle-num-names.bst can be used for numbered with new options of natbib.sty
- citestyle: authoryear will use elsarticle-harv.bst can be used for author year scheme

This citestyle will insert the right .bst and set the correct classoption for elsarticle document class.

Using natbiboptions variable in YAML header, you can set more options for natbib itself . Example

natbiboptions: longnamesfirst, angle, semicolon

#### **Using CSL**

If cite-method is set to citeproc in elsevier\_article(), then pandoc is used for citations instead of natbib. In this case, the csl option is used to format the references. By default, this template will provide an appropriate style, but alternative csl files are available from <a href="https://www.zotero.org/styles?q=elsevier">https://www.zotero.org/styles?q=elsevier</a>. These can be downloaded and stored locally, or the url can be used as in the example header.

### **Equations**

Here is an equation:

$$f_X(x) = \left(\frac{\alpha}{\beta}\right) \left(\frac{x}{\beta}\right)^{\alpha - 1} e^{-\left(\frac{x}{\beta}\right)^{\alpha}}; \alpha, \beta, x > 0.$$

Inline equations work as well:  $\sum_{i=2}^{\infty} {\{\alpha_i^{\beta}\}}$ 

# Figures and tables

Figure 1 is generated using an R chunk.

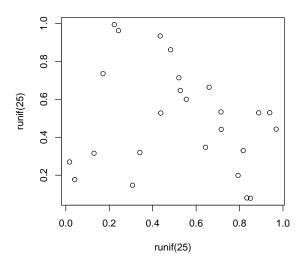


Figure 1: A meaningless scatterplot

## Tables coming from R

Tables can also be generated using R chunks, as shown in Table 1 example.

```
knitr::kable(head(mtcars)[,1:4])
```

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

### References

Dirac, P. A. M. 1953. "The Lorentz Transformation and Absolute Time." *Physica* 19 (1–12): 888–96. https://doi.org/10.1016/S0031-8914(53)80099-6.

Feynman, R. P, and F. L Vernon Jr. 1963. "The Theory of a General Quantum System Interacting with a Linear Dissipative System." Annals of Physics 24: 118–73. https://doi.org/10.1016/0003-4916(63)90068-X.