Homework assignment title.

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Last compiled on: 07/07/2021, 23:09:08.

Abstract

Summary of main findings and conclusions. Optional section.

Keywords: quantitative finance; financial risk; financial modeling in R; Optional section.

1 Introduction.

Look how you can add web links in the following sentence. This template is based on the generic OUP template available here. Now, look how you can add a different font. This is useful for file or function names. The original OUP sample tex document, providing more details on preferred formatting for LaTeX documents, is included with the template in the file ouparticle_sample.tex.

Here are some sample references. Reference in brackets as in a list. Please see (Hull 2015a; Carhart 1997) for a full discussion of multi-factor models. Bibliography will appear at the end of the document. Second, without brackets, separated by a comma. See Hull

(2015a), Hull (2015b), Cochrane (2009) for a formal demonstration of analytical results, and (Carhart 1997; Cochrane 1996) for some empirical results.

2 Methodology.

An equation with a label for cross-referencing:

$$\int_0^{r_2} F(r,\varphi) dr d\varphi = \left[\sigma r_2 / (2\mu_0) \right] \int_0^{\infty} \exp(-\lambda |z_j - z_i|) \lambda^{-1} J_1(\lambda r_2) J_0(\lambda r_i \lambda d\lambda) \tag{1}$$

This equation can be referenced as follows: Eq. 1. Now a simpler equation:

$$w = \sum_{i=1}^{20} [1/n^i] \tag{2}$$

This equation can be referenced as Eq. 2.

We can also write equations within the main text as here: $w = \sum_{i=1}^{20} [1/n^i]$.

2.1 A subsection.

A numbered list:

- 1) First numbered point
- 2) Second numbered point
 - Subpoint

A bullet list:

- First point
- Second point

3 Results.

3.1 Generate a figure.

```
plot(1:10, main = "Some data", xlab = "Distance (cm)",
ylab = "Time (hours)")
```

Some data

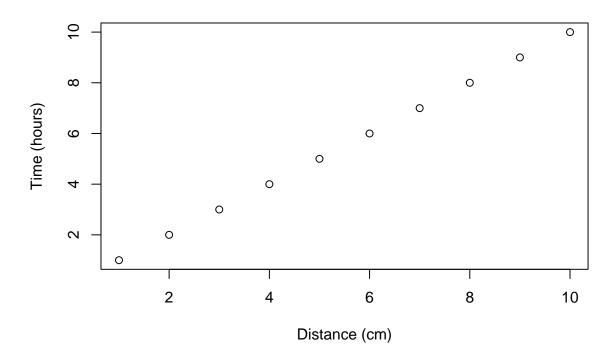


Figure 1: This is the first figure.

You can reference this figure as follows: Fig. 1.

```
plot(1:5, pch = 19, main = "Some data", xlab = "Distance (cm)",
ylab = "Time (hours)")
```

Some data

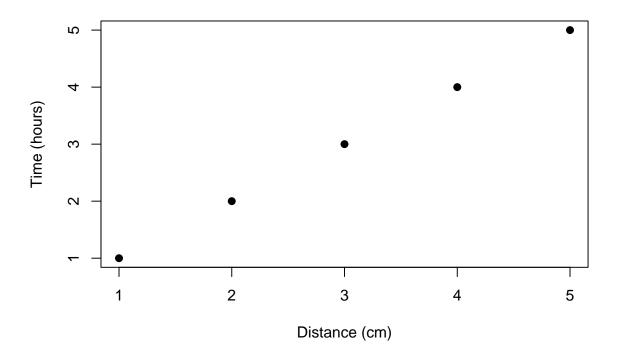


Figure 2: This is the second figure.

Reference to second figure: Fig. 2

3.2 Generate a table using xtable.

	ID	code
1	1	a
2	2	b
3	3	\mathbf{c}

Table 1: This is the table caption

You can reference this table as follows: Table 1.

Table 2: This is the table caption

ID	code
1	a
2	b
3	c

3.3 Generate a table using kable.

You can reference this table as follows: Table 2.

4 Conclusion.

You can cross-reference sections and subsections as follows: Section 2 and Section 2.1.

Note: the last section in the document will be used as the section title for the bibliography.

References.

- Carhart, Mark M. 1997. "On Persistence in Mutual Fund Performance." *The Journal of Finance* 52 (1): 57–82.
- Cochrane, John H. 1996. "A Cross-Sectional Test of an Investment-Based Asset Pricing Model." *Journal of Political Economy* 104 (3): 572–621.
- ——. 2009. Asset Pricing: Revised Edition. Princeton university press.
- Hull, John C. 2015a. Options, Futures, and Other Derivatives. 9th ed. Prentice Hall.
- ———. 2015b. Options, Futures, and Other Derivatives. 9th ed. Prentice Hall.