

# **Creating custom quarto templates**

Rob J Hyndman

23 October 2024



# Letter template



MONASH  
University

MONASH  
BUSINESS  
SCHOOL

9 October 2024

Hypatia  
University of Alexandria  
Egypt

Dear Hypatia

Quisque ipsum dolor sit amet, consectetur adipiscing elit. Proin mollis dolor vitae tristique eleifend. Quisque non ipsum sit amet velit malesuada consectetur. Praesent vel facilisis leo. Sed facilisis varius orci, ut aliquam lorem malesuada in. Morbi nec purus at nisi fringilla varius non ut dui. Pellentesque bibendum sapien velit. Nulla purus justo, congue eget enim a, elementum sollicitudin eros. Cras porta augue ligula, vel adipiscing odio ullamcorper eu. In tincidunt nisi sit amet tincidunt tincidunt. Maecenas elementum neque eget dolor egestas fringilla:

Nullam eget dapibus quam, sit amet sagittis magna. Nam tincidunt, orci ac imperdiet ultricies, neque metus ultrices quam, id gravida augue lacus ac leo.

Vestibulum id sodales lectus, sed scelerisque quam. Nullam auctor mi et feugiat commodo. Duis interdum imperdiet nulla, vitae bibendum eros placerat non. Cras ornare, risus in faucibus malesuada, libero sem fringilla quam, ut luctus enim sapien eget dolor.

Sincerely

PS: Lorem ipsum dolor sit amet, consectetur adipiscing elit.

Pierre Curie, Nobel Prize, PhD  
Professor  
Department of Econometrics & Business Statistics  
Monash University, Victoria 3800, Australia.

[Pierre.Curie@monash.edu](mailto:Pierre.Curie@monash.edu) +61 3 9905 5555 [curie.com](http://curie.com)  
ABN: 12 377 654 012 CRICOS Provider Number: 00068C



# Letter template



9 October 2024

Hypatia  
University of Alexandria  
Egypt

Dear Hypatia

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Proin mollis dolor vitae tristique eleifend. Quisque non ipsum sit amet velit malesuada consectetur. Praesent vel facilisis leo. Sed facilisis varius orci, ut aliquam lorem malesuada in. Morbi nec purus at nisi fringilla varius non ut dui. Pellentesque bibendum sapien velit. Nulla purus justo, congue eget enim a, elementum sollicitudin eros. Cras porta augue ligula, vel adipiscing odio ullamcorper eu. In tincidunt nisi sit amet tincidunt tincidunt. Maecenas elementum neque eget dolor egas **fringilla**:

Nullam eget dapibus quam, sit amet sagittis magna. Nam tincidunt, orci ac imperdiet ultricies, neque metus ultrices quam, id gravida augue lacin ac leo.

Vestibulum id sodales lectus, sed scelerisque quam. Nullam auctor mi et feugiat commodo. Duis interdum imperdiet nulla, vitae bibendum eros placerat non. Cras ornare, risus in faucibus malesuada, libero sem fringilla quam, ut luctus enim sapien eget dolor.

Sincerely

PS: Lorem ipsum dolor sit amet, consectetur adipiscing elit.

Pierre Curie, Nobel Prize, PhD  
Professor  
Department of Econometrics & Business Statistics  
Monash University, Victoria 3800, Australia

[Pierre.Curie@monash.edu](mailto:Pierre.Curie@monash.edu) +61 3 9905 5555 [curie.com](http://curie.com)  
ABN: 12 377 654 012 CRICOS Provider Number: 00060C

MONASH  
BUSINESS  
SCHOOL

---

**author:** Pierre Curie

**qualifications:** Nobel Prize, PhD

**position:** Professor

**www:** curie.com

**email:** Pierre.Curie@monash.edu

**phone:** +61 3 9905 5555

**signature:** sigfile.png

**address:**

- Hypatia

- University of Alexandria

- Egypt

**opening:** "Dear Hypatia"

**closing:** "Sincerely"

**linestretch:** 1.4

**ps:** "PS. Lorem ipsum dolor sit amet, \*consectetur\*  
adipiscing elit."

**format:** letter-pdf

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# Memo template



MONASH  
BUSINESS  
SCHOOL

## Note to self

Marie Curie

30 August 2024

*Quisque non ipsum sit amet, consectetur adipisciing elit. Proin mollis dolor vitae tristique eleifend. Quisque non ipsum sit amet velit malesuada consectetur. Praesent vel facilisis leo. Sed facilisis varius orci, ut aliquam lorem malesuada id. Morbi nec purus at nisi fringilla varius non ut dui. Pellentesque bibendum sapien velit. Nulla purus justo, congue eget enim a, elementum sollicitudin eros. Cras porta augue ligula, vel adipisciing odio ullamcorper eu. In tincidunt nisi sit amet tincidunt tincidunt. Maecenas elementum neque eget dolor egestas fringilla:*

*Nullam eger dapibus quam, sit amet sagittis magna. Nam tincidunt, orci ac imperdier ultricies, neque metus ultrices quam, id gravida augue lacus ac leo.*

*Vestibulum id sodales lectus, sed scelerisque quam. Nullam auctor mi et feugiat commodo. Duis interdum imperdier nulla, vitae bibendum eros placerat non. Cras ornare, risus in faucibus malesuada, libero sem fringilla quam, ut luctus enim sapien eger dolor.*

# Memo template



MONASH  
University

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*Quisque non ipsum sit amet, consectetur adipiscing elit. Proin mollis dolor vitae tristique eleifend. Quisque non ipsum sit amet velit malesuada consectetur. Praesent vel facilisis leo. Sed facilisis varius orci, ut aliquam lorem malesuada id. Morbi nec purus at nisi fringilla varius non ut dui. Pellentesque bibendum sapien velit. Nulla purus justo, congue eget enim a, elementum sollicitudin eros. Cras porta augue ligula, vel adipiscing odio ullamcorper eu. In tincidunt nisi sit amet tincidunt tincidunt. Maecenas elementum neque eget dolor egestas fringilla:*

*Nullam eger dapibus quam, sit amet sagittis magna. Nam tincidunt, orci ac imperdiet ultricies, neque metus ultrices quam, id gravida augue lacus ac leo.*

*Vestibulum id sodales lectus, sed scelerisque quam. Nullam auctor mi et feugiat commodo. Duis interdum imperdiet nulla, vitae bibendum eros placerat non. Cras ornare, risus in faucibus malesuada, libero sem fringilla quam, ut lucus enim sapien eget dolor.*

---

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**author:** Marie Curie  
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**format:** memo-pdf

---

# Report template



**Expert advice from  
experts**

**Professor Marie Curie**  
Nobel Prize, PhD

**Dr Pierre Curie**  
Nobel Prize, PhD

MONASH  
BUSINESS  
SCHOOL

Department of  
Econometrics &  
Business Statistics

(03) 9905 2478  
BusEco-Econometrics@monash.edu

ABN: 12 377 614 012

Report for  
Acme Corporation

9 October 2024



# Report template



**Expert advice from  
experts**

**Professor Marie Curie**  
Nobel Prize, PhD

**Dr Pierre Curie**  
Nobel Prize, PhD

Report for  
Acme Corporation

9 October 2024

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SCHOOL

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Econometrics &  
Business Statistics

(03) 9905 2478  
BusEco-Econometrics@monash.edu

ABN: 12 377 614 012



---

```
title: "Expert advice from experts"
author:
- name: Professor Marie Curie
  degrees: Nobel Prize, PhD
  email: mcurie.notreal@gmail.com
- name: Dr Pierre Curie
  degrees: Nobel Prize, PhD
  phone: (03) 9905 2478
  email: BusEco-Econometrics@monash.edu
organization: Acme Corporation
bibliography: references.bib
format: report-pdf
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```

# Report template

Expert advice from experts

## 1 Introduction

In a famous paper, Box & Cox (1964) introduced a family of transformations ...

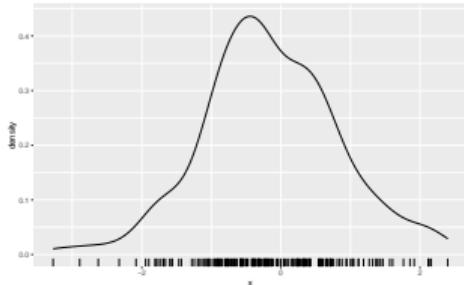


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Note that Equation 1 is an unbiased estimate of the variance, but it is not the maximum likelihood estimate (Rice 2007, p. 269).

## References

- Box, GEP & DR Cox (1964). An analysis of transformations. *Journal of the Royal Statistical Society, Series B* 26(2), 211–252.  
Rice, JA (2007). *Mathematical Statistics and Data Analysis*. 3rd edition. Duxbury.

---

**title:** "Expert advice from experts"

**author:**

- **name:** Professor Marie Curie

**degrees:** Nobel Prize, PhD

**email:** mcurie.notreal@gmail.com

- **name:** Dr Pierre Curie

**degrees:** Nobel Prize, PhD

**phone:** (03) 9905 2478

**email:** BusEco-Econometrics@monash.edu

**organization:** Acme Corporation

**bibliography:** references.bib

**format:** report-pdf

---

# Exam template



Semester One 2024  
Examination Period

## Faculty of Business & Economics

UNIT CODES: ETC0000  
TITLE OF PAPER: Advanced Bean Counting  
EXAM DURATION: 2 hours 10 minutes

### AUTHORISED MATERIALS

This is a closed book exam, with the following permitted items.

- A physical calculator of any type or virtual Calculator:
  - Inbuilt Mac/Windows calculator
  - Website <https://www.edu calc.net/2336211.page>
  - 10bit Financial Calculator for Mac by K2 Cashflow, <https://apps.apple.com/au/app/10bit-financial-calculator/id473144920>
- 5 blank pages for use as working sheets
- 2 pre-printed answer sheets

### RULES

During your eExam, you must not have in your possession any item/material that has not been authorised for your exam. This includes books, notes, paper, electronic device/s, smart watch/device, or writing on any part of your body. Authorised items are listed above. Items/materials on your device, desk, chair, in your clothing or otherwise on your person will be deemed to be in your possession. Mobile phones must be switched off and placed face-down on your desk during your exam attempt.

You must not retain, copy, memorise or note down any exam content for personal use or to share with any other person by any means during or following your exam. You are not allowed to copy/paste text to or from external sources unless this has been authorised by your Chief Examiner.

You must comply with any instructions given to you by Monash exam staff.

As a student, and under Monash University's Student Academic Integrity procedure, you must undertake all your assessments with honesty and integrity. You must not allow anyone else to do work for you and you must not do any work for others. You must not contact, or attempt to contact, another person in an attempt to gain unfair advantage during your assessment. Assessors may take reasonable steps to check that your work displays the expected standards of academic integrity.

Failure to comply with the above instructions, or attempting to cheat or cheating in an assessment may constitute a breach of instructions under regulation 23 of the Monash University (Academic Board) Regulations or may constitute an act of academic misconduct under Part 7 of the Monash University (Council) Regulations.

# Exam template



Semester One 2024  
Examination Period

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  - Inbuilt Mac/Windows calculator
  - Website <https://www.educalc.net/2336211.page>
  - 10bit Financial Calculator for Mac by K2 Cashflow, <https://apps.apple.com/au/app/10bit-financial-calculator/id473144920>
- 5 blank pages for use as working sheets
- 2 pre-printed answer sheets

### RULES

During your eExam, you must not have in your possession any item/material that has not been authorised for your exam. This includes books, notes, paper, electronic device/s, smart watch/device, or writing on any part of your body. Authorised items are listed above. Items/materials on your device, desk, chair, in your clothing or otherwise on your person will be deemed to be in your possession. Mobile phones must be switched off and placed face-down on your desk during your exam attempt.

You must not retain, copy, memorise or note down any exam content for personal use or to share with any other person by any means during or following your exam. You are not allowed to copy/paste text to or from external sources unless this has been authorised by your Chief Examiner.

You must comply with any instructions given to you by Monash exam staff.

As a student, and under Monash University's Student Academic Integrity procedure, you must undertake all your assessments with honesty and integrity. You must not allow anyone else to do work for you and you must not do any work for others. You must not contact, or attempt to contact, another person in an attempt to gain unfair advantage during your assessment. Assessors may take reasonable steps to check that your work displays the expected standards of academic integrity.

Failure to comply with the above instructions, or attempting to cheat or cheating in an assessment may constitute a breach of instructions under regulation 23 of the Monash University (Academic Board) Regulations or may constitute an act of academic misconduct under Part 7 of the Monash University (Council) Regulations.

---

unitcode: ETC0000  
unittitle: "Advanced Bean Counting"  
duration: 2 hours 10 minutes  
semester: Semester One 2024  
examperiod: Examination Period  
format: exam-pdf

---

# Exam template

The exam contains FIVE questions. ALL questions must be answered. The exam is worth 100 marks in total.

## SECTION A

Show that the following expression is the MLE for the variance assuming a Gaussian distribution.

$$\sigma^2 = \frac{1}{n} \sum_{i=1}^n (x_i - \bar{x})^2$$

20 marks

Total: 20 marks

---

unitcode: ETC0000

unittitle: "Advanced Bean Counting"

duration: 2 hours 10 minutes

semester: Semester One 2024

examperiod: Examination Period

format: exam-pdf

---

# Exam template

## SECTION B

Second question.

(a) Part a.

4 marks

(b) More stuff.

10 marks

(c) Final part.

6 marks

Total: 20 marks

---

unitcode: ETC0000

unittitle: "Advanced Bean Counting"

duration: 2 hours 10 minutes

semester: Semester One 2024

examperiod: Examination Period

format: exam-pdf

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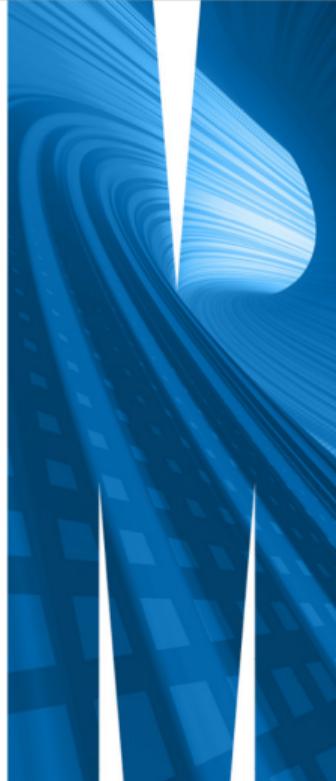
# Presentation template



## My great presentation with a title that is far too long

Hypatia of Alexandria

15 June 2024



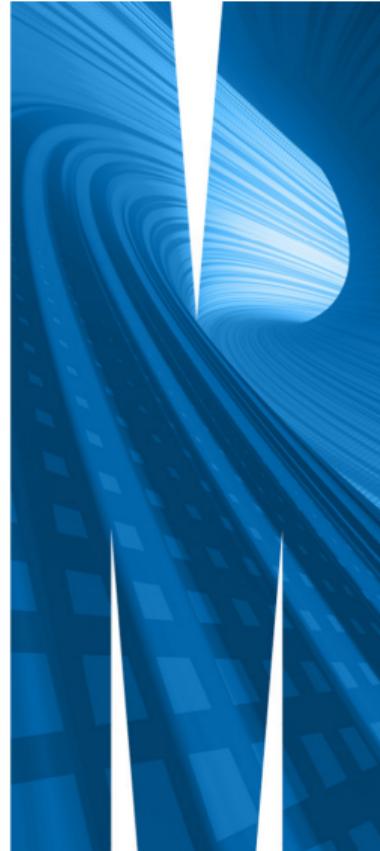
# Presentation template



**My great presentation  
with a title that is far too  
long**

Hypatia of Alexandria

15 June 2024



# Presentation template



## **My great presentation with a title that is far too long**

Hypatia of Alexandria

15 June 2024

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title: My great presentation with a title that is
author: Hypatia of Alexandria
date: today
toc: true
format:
  presentation-beamer: default
  presentation-revealjs+letterbox: default
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# Working paper template



MONASH  
BUSINESS  
SCHOOL

ISSN 1440-771X

Department of Econometrics and Business Statistics

<http://monash.edu/business/ebs/research/publications>

## Our great idea

Marie Curie, Genghis Khan, Monique Ash

May 2024

Working Paper no./yr

# Working paper template



MONASH  
University

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BUSINESS  
SCHOOL

ISSN 1440-771X

Department of Econometrics and Business Statistics

<http://monash.edu/business/ebs/research/publications>

## Our great idea

Marie Curie, Genghis Khan, Monique Ash

May 2024

Working Paper no/yr



---

**title:** "Our great idea"

**author:**

- **name:** Marie Curie

**affiliations:**

- **name:** University of Paris

**department:** Department of Radiation

**city:** Paris

**country:** France

**postal-code:** PX2039

**email:** mcurie.notreal@gmail.com

**corresponding:** true

- **name:** Genghis Khan

**affiliations:**

- **name:** Monash University

**department:** Department of Econometrics & Business

**city:** Clayton VIC

**country:** Australia

**postal-code:** 3800

- **name:** Monique Ash

**email:** Monique.Ash@monash.edu

**abstract:** |

# Working paper template

## Our great idea

**Marie Curie**  
Department of Radiation  
University of Paris  
Paris PX2039  
France  
Email: mcurie.notreal@gmail.com  
Corresponding author

**Genghis Khan**  
Department of Econometrics & Business Statistics  
Monash University  
Clayton VIC 3800  
Australia

**Monique Ash**  
Email: Monique.Ash@monash.edu

28 May 2024

JEL classification: C10,C14,C22

```
---
```

```
title: "Our great idea"
author:
- name: Marie Curie
  affiliations:
    - name: University of Paris
      department: Department of Radiation
      city: Paris
      country: France
      postal-code: PX2039
      email: mcurie.notreal@gmail.com
      corresponding: true
- name: Genghis Khan
  affiliations:
    - name: Monash University
      department: Department of Econometrics & Business Statistics
      city: Clayton VIC
      country: Australia
      postal-code: 3800
- name: Monique Ash
  email: Monique.Ash@monash.edu
abstract: |
```

# Working paper template

## Our great idea

**Marie Curie**  
Department of Radiation  
University of Paris  
Paris 752039  
France  
Email: mcurre.noreal@gmail.com  
Corresponding author

**Genghis Khan**  
Department of Econometrics & Business Statistics  
Monash University  
Clayton VIC 3800  
Australia

**Monique Ash**  
Email: Monique.Ash@monash.edu

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  affiliations:
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      city: Clayton VIC
      country: Australia
      postal-code: 3800
- name: Monique Ash
  email: Monique.Ash@monash.edu
abstract: |
  A brief summary of our ideas
keywords: [blah, blah]
bibliography: references.bib
wpnumber: no/yr
jelcodes: C10,C14,C22
blind: false
cover: true
linestretch: 1.5
format:
  wp-pdf: default
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# Working paper template

## Our great idea

### Abstract

A brief summary of our ideas

Keywords: blah; blah.

### 1 Introduction

In a famous paper, Box & Cox (1964) introduced a family of transformations ...

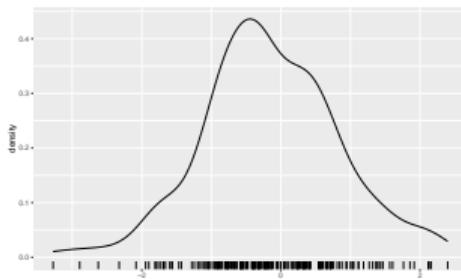


Figure 1: Simulated data from a  $N(0,1)$  distribution.

Figure 1 shows a kernel density estimate of simulated data from a  $N(0,1)$  distribution. The sample variance is given by

$$\hat{s}^2 = \frac{1}{n-1} \sum_{i=1}^n (x_i - \bar{x})^2 = 0.98. \quad (1)$$

Note that Equation 1 is an unbiased estimate of the variance, but it is not the maximum likelihood estimate (Rice 2007, p. 269).

New paragraph.

```
- name: Genghis Khan
  affiliations:
    - name: Monash University
      department: Department of Econometrics & Business
      city: Clayton VIC
      country: Australia
      postal-code: 3800
- name: Monique Ash
  email: Monique.Ash@monash.edu
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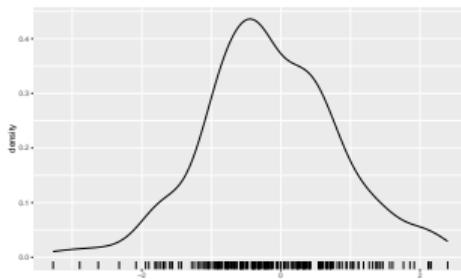


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abstract: |
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jelcodes: C10,C14,C22
blind: false
cover: true
linestretch: 1.5
format:
  wp-pdf: default
---
```

Change format: wp-pdf to  
■ arxiv-pdf for arXiv  
■ a quarto journal format when submitting.

# Journal articles

## Our great idea

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A brief summary of our ideas

Keywords: blah; blah.

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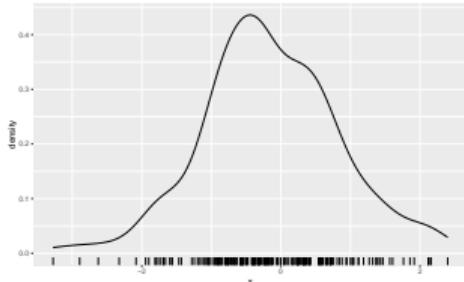


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New paragraph.

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keywords: [blah, blah]

bibliography: references.bib

wpnumber: no/yr

jelcodes: C10,C14,C22

blind: false

cover: true

linestretch: 1.5

format:

wp-pdf: default

---

# Journal articles

Our great idea

Marie Curie<sup>a,\*</sup>, Genghis Khan<sup>b</sup>, Monique Ash

<sup>a</sup>University of Paris, Department of Radiation, Somewhere, Paris, France, PX2039

<sup>b</sup>Monash University, Department of Econometrics & Business Statistics, Clayton VIC, Australia, 3800

## Abstract

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Keywords: blah, blah

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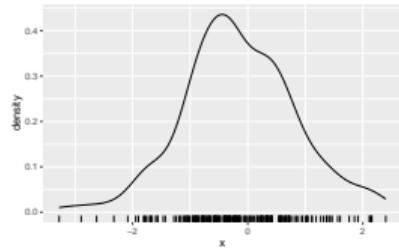


Figure 1: Simulated data from a  $N(0,1)$  distribution.

Figure 1 shows a kernel density estimate of simulated data from a  $N(0,1)$  distribution. The sample variance

\*Corresponding author  
Email address: [marie.curie@gmail.com](mailto:marie.curie@gmail.com) (Marie Curie), [Monique Ash](mailto:Monique.Ash@monash.edu) (Monique Ash)

abstract: |

A brief summary of our ideas

keywords: [blah, blah]

bibliography: references.bib

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jelcodes: C10,C14,C22

blind: false

cover: true

linestretch: 1.5

format:

#wp-pdf: default

elsevier-pdf:

journal:

name: International Journal of Forecasting

model: 3p

cite-style: authoryear

# Journal articles

Our great idea

Marie Curie<sup>a,\*</sup>, Genghis Khan<sup>b</sup>, Monique Ash

<sup>a</sup>University of Paris, Department of Radiation, Somewhere, Paris, France, PX2039

<sup>b</sup>Monash University, Department of Econometrics & Business Statistics, Clayton VIC, Australia, 3800

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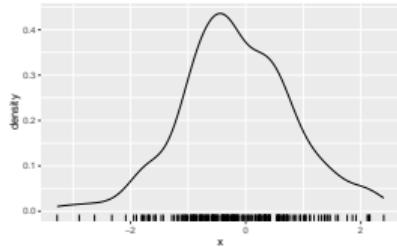


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\*Corresponding author  
Email address: [marie.curie@gmail.com](mailto:marie.curie@gmail.com) (Marie Curie), [Monique Ash](mailto:Monique.Ash@monash.edu) (Monique Ash)

abstract: |

A brief summary of our ideas

keywords: [blah, blah]

bibliography: references.bib

wpnumber: no/yr

jelcodes: C10,C14,C22

blind: false

cover: true

linestretch: 1.5

format:

#wp-pdf: default

elsevier-pdf:

journal:

name: International Journal of Forecasting

model: 3p

cite-style: authoryear

---

Currently, quarto does not allow two pdf output files.

# Thesis template



MONASH University

**This is my thesis**

Susan Su

B.Sc. (Hons), University of Tangambalanga

A thesis submitted for the degree of  
Doctor of Philosophy  
at Monash University in 2024  
Department of Econometrics & Business Statistics

# Thesis template



MONASH University

**This is my thesis**

Susan Su

B.Sc. (Hons), University of Tangambalanga

A thesis submitted for the degree of  
Doctor of Philosophy  
at Monash University in 2024  
Department of Econometrics & Business Statistics

```
project:  
  type: book  
book:  
  title: "This is my thesis"  
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## Declaration

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### Standard thesis

This thesis is an original work of my research and contains no material which has been accepted for the award of any other degree or diploma at any university or equivalent institution and that, to the best of my knowledge and belief, this thesis contains no material previously published or written by another person, except where due reference is made in the text of the thesis.

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The material in Chapter 1 has been submitted to the journal *Journal of Impossible Results* for possible publication.

The contribution in Chapter 2 of this thesis was presented in the International Symposium on Nonsense held in Dublin, Ireland, in July 2022.

### Reproducibility statement

This thesis is written using Quarto with renv (Ushay 2022) to create a reproducible environment. All materials (including the data sets and source files) required to reproduce this document can be found at the Github repository [github.com/SusanSu/thesis](https://github.com/SusanSu/thesis).

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(The inclusion of co-authors reflects the fact that the work came from active collaboration between researchers and acknowledges input into team-based research.)

In the case of (??insert chapter numbers) my contribution to the work involved the following:

Thesis chapter	Publication title	Status	Nature and % of student contribution	Nature and % of coauthors' contribution	Coauthors are Monash students
2	The life cycle of Mongolian crickets	Submitted	Concept and data analysis, writing first draft: 60%	Shu Xu, input into manuscript: 25%; Eddie Betts, input into manuscript: 15%	Shu Xu: No; Eddie Betts: Yes

I have / have not renumbered sections of submitted or published papers in order to generate a consistent presentation within the thesis.

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## Chapter 1

### Introduction

This is where you introduce the main ideas of your thesis, and an overview of the context and background.

In a PhD, Chapter 2 would normally contain a literature review. Typically, Chapters 3–5 would contain your own contributions. Think of each of these as potential papers to be submitted to journals.

Finally, Chapter 6 provides some concluding remarks, discussion, ideas for future research, and so on. Appendices can contain additional material that don't fit into any chapters, but that you want to put on record. For example, additional tables, output, etc.

#### 1.1 Quarto

In this template, the rest of the chapter shows how to use quarto. The big advantage of using quarto is that it allows you to include your R or Python code directly into your thesis, to ensure there are no errors in copying and pasting, and that everything is reproducible. It also helps you stay better organized.

For details on using Quarto, see <http://quarto.org>.

#### 1.2 Data

Included in this template is a file called `sales.csv`. This contains quarterly data on Sales and Advertising budget for a small company over the period 1981–2005. It also contains the GDP (gross domestic product) over the same period. All series have been adjusted for inflation. We can load in this data set using the following code:

```
sales <- readr::read_csv(here::here("data/sales.csv")) |>  
  rename(Quarter = "...1") |>
```

1

```
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```
mutate(  
  Quarter = as.Date(paste0("01-", Quarter), "%d-%b-%y"),  
  Quarter = yearquarter(Quarter)  
) |>  
as_tibble(index = Quarter)
```

Any data you use in your thesis can go into the `data` directory. The data should be in exactly the format you obtained it. Do no editing or manipulation of the data prior to including it in the `data` directory. Any data munging should be scripted and form part of your thesis files (possibly hidden in the output).

## 1.3 Figures

Figure 1.1 shows time plots of the data we just loaded. Notice how figure captions and references work. Chunk names can be used as figure labels with `Fig-` prefixed. Never manually type figure numbers, as they can change when you add or delete figures. This way, the figure numbering is always correct.

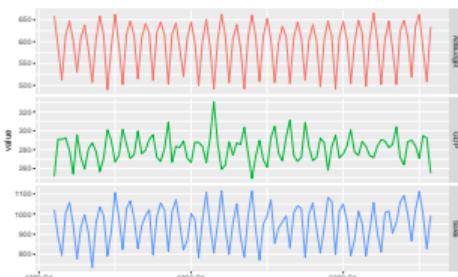


Figure 1.1: Quarterly sales, advertising and GDP data.

## 1.4 Results from analyses

We can fit a regression model to the sales data.

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If  $y_t$  denotes the sales in quarter  $t$ ,  $x_t$  denotes the corresponding advertising budget and  $z_t$  denotes the GDP then the resulting model is:

$$y_t = \beta x_t + \gamma z_t + \epsilon_t \quad (1.1)$$

where  $\hat{\beta} = 1.85$ , and  $\hat{\gamma} = 1.04$ . We can reference this equation using Equation 1.1.

## 1.5 Tables

We can also make a nice summary table of the coefficients, as shown in Table 1.1

Table 1.1: Coefficients from the fitted model.

Coefficient	Estimate	P value
(Intercept)	-438.98	0.02
GDP	1.04	0.02
AdBudget	1.85	0.00

Again, notice the use of labels and references to automatically generate table numbers.

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## Chapter 2

### Literature Review

This chapter contains a summary of the context in which your research is set.

Imagine you are writing for your fellow PhD students. Topics that are well-known to them do not have to be included here. But things that they may not know about should be included.

Resist the temptation to discuss everything you've read in the last few years. And you are not writing a textbook either. This chapter is meant to provide the background necessary to understand the material in subsequent chapters. Stick to that.

You will need to organize the literature review around themes, and within each theme provide a story explaining the development of ideas to date. In each theme, you should get to the point where your ideas will fit in. But leave your ideas to later chapters. This way it is clear what has been done beforehand, and what new contributions you are making to the research field.

All citations should be done using markdown notation as shown below. This way, your bibliography will be compiled automatically and correctly.

#### 2.1 Exponential smoothing

Exponential smoothing methods were originally developed in the late 1950s (Brown 1959, 1963; Holt 1957; Winters 1960). Because of their computational simplicity and interpretability, they became widely used in practice.

Empirical studies by Makridakis & Hibon (1979) and Makridakis et al. (1982) found little difference in forecast accuracy between exponential smoothing and ARIMA models. This made the family of exponential smoothing procedures an attractive proposition (see Chatfield et al. 2001).

The methods were less popular in academic circles until Ord, Koehler & Snyder (1997) introduced a

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state space formulation of some of the methods, which was extended in Hyndman et al. (2002) to cover the full range of exponential smoothing methods.

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Chatfield, C, AB Koehler, JK Ord & RD Snyder (2001). A new look at models for exponential smoothing. *The Statistician* **50**(2), 147–159.

Holt, CE (1957). *Forecasting trends and seasonal by exponentially weighted averages*. O.N.R. Memorandum 52/1957. Carnegie Institute of Technology.

Hyndman, RJ, AB Koehler, RD Snyder & S Grose (2002). A state space framework for automatic forecasting using exponential smoothing methods. *International Journal of Forecasting* **18**(3), 439–454.

Makridakis, S, A Anderson, R Carbone, R Fildes, M Hibon, RJL Newton, E Parzen & R Winkler (1982). The accuracy of extrapolation (time series) methods: results of a forecasting competition. *Journal of Forecasting* **1**, 111–153.

Makridakis, S & M Hibon (1979). Accuracy of forecasting: an empirical investigation (with discussion). *Journal of Royal Statistical Society (A)* **142**, 97–145.

Ord, JK, AB Koehler & RD Snyder (1997). Estimation and prediction for a class of dynamic nonlinear statistical models. *Journal of American Statistical Association* **92**, 1621–1629.

Ushey, K (2022). *remr: Project Environments*. R package version 0.16.0. <https://CRAN.R-project.org/package=remr>.

Winters, PR (1960). Forecasting sales by exponentially weighted moving averages. *Management Science* **6**, 324–342.

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- 1 Introduction
- 2 Literature Review
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### Abstract

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- All but presentation use Bitstream Vera for the body with a matching mathematical font:

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Monash Business School letterhead	<a href="#">letter</a>	<code>quarto use template quarto-monash/letter</code>
Monash Business School memo	<a href="#">memo</a>	<code>quarto use template quarto-monash/memo</code>
Monash University themed Beamer and RevealJS presentations	<a href="#">presentation</a>	<code>quarto use template quarto-monash/presentation</code>
Monash Business School consulting report	<a href="#">report</a>	<code>quarto use template quarto-monash/report</code>
Monash University thesis	<a href="#">thesis</a>	<code>quarto use template quarto-monash/thesis</code>
Monash University Department of Econometrics & Business Statistics working paper	<a href="#">workingpaper</a>	<code>quarto use template quarto-monash/workingpaper</code>

## From a terminal

```
quarto use template quarto-monash/<name>
```

- [letter](#)
- [memo](#)
- [presentation](#)
- [report](#)
- [thesis](#)
- [workingpaper](#)
- [exam](#)

## From the R console

```
monash::quarto_template_install("<name>")
```

# Structure of a template

```
|- extensions
  |- quarto-monash
    |- letter
      |- _extension.yml
      |- after-body.tex
      |- before-body.tex
      |- before-title.tex
      |- AACSB.png
      |- AMBA.png
      |- EQUIS.png
      |- MBSportrait.jpg
      |- monash2.png
      |- sigfile.png
  template.qmd
```

# Structure of a template

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|- extensions
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      |- monash2.png
      |- sigfile.png
  template.qmd
```

- template.qmd: template for user to edit.
- extension.yml: default yaml
- \*.tex: pandoc partials
- Everything else: graphical files needed for the template

# Structure of a template

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      |- monash2.png
      |- sigfile.png
  template.qmd
```

## template.qmd

```
---
author: Pierre Curie
qualifications: Nobel Prize, PhD
position: Professor
www: curie.com
email: Pierre.Curie@monash.edu
phone: +61 3 9905 5555
signature: sigfile.png
address:
  - Hypatia
  - University of Alexandria
  - Egypt
opening: "Dear Hypatia"
closing: "Sincerely"
linestretch: 1.4
ps: "PS. Lorem ipsum dolor sit amet, *consectetur*
      adipiscing elit."
format: letter-pdf
---
```

I am writing about the paper you recently published in

# Structure of a template

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      |- sigfile.png
  template.qmd
```

## extension.yml

```
title: Monash Letter
author: Rob J Hyndman
version: 2.0.0
quarto-required: ">=1.4.0"
contributes:
  formats:
    pdf:
      documentclass: letter
      pdf-engine: pdflatex
      date: today
      date-format: "D MMMM YYYY"
      papersize: a4
      fontsize: 11pt
      geometry:
        - "top=2cm"
        - "bottom=2cm"
        - "left=2cm"
        - "right=2cm"
      colorlinks: true
      template-partials:
        - "before-body.tex"
        - "after-body.tex"
        - "before-title.tex"
```

# Structure of a template

```
|- extensions
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    |- letter
      |- _extension.yml
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      |- before-body.tex
      |- before-title.tex
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      |- AMBA.png
      |- EQUIS.png
      |- MBSportrait.jpg
      |- monash2.png
      |- sigfile.png
  template.qmd
```

## before-body.tex

```
\begin{letter}{\$for(address)$$address$$sep$\\$endfor\$}
$if(opening)$
\opening{$opening$}
$endif$
```

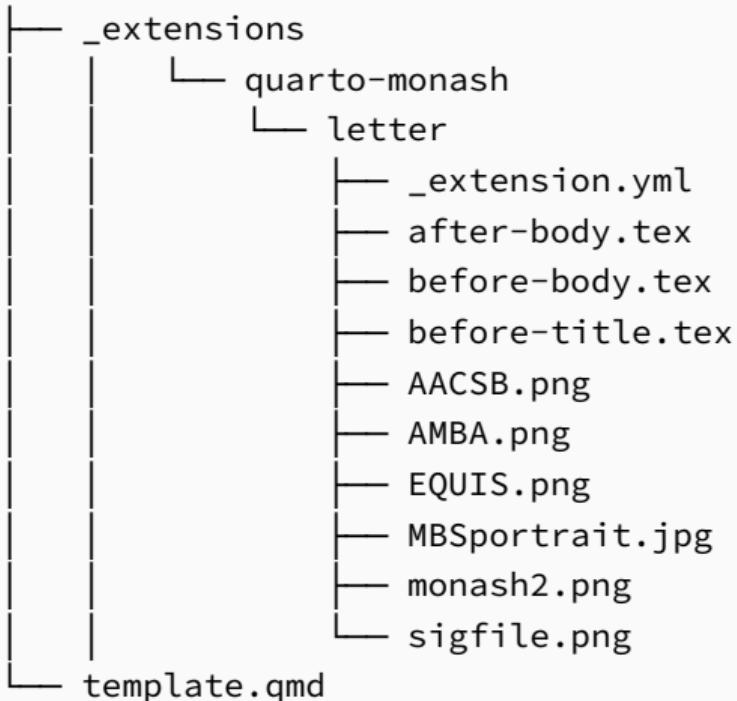
# Structure of a template

```
└── extensions
    └── quarto-monash
        └── letter
            ├── _extension.yml
            ├── after-body.tex
            ├── before-body.tex
            ├── before-title.tex
            ├── AACSB.png
            ├── AMBA.png
            ├── EQUIS.png
            ├── MBSportrait.jpg
            ├── monash2.png
            └── sigfile.png
└── template.qmd
```

## after-body.tex

```
$if(closing)$
\closing{$closing$\\[0.2cm]\\hspace*{0.5cm}}
$if(signature)$
\includegraphics[height=1.5cm]{$signature$}
$endif$
}
$endif$
\vfill
$if(encl)$
\encl{$for(encl)$$encl$$sep$\\$endfor$}
$endif$
$if(cc)$
\cc{$for(cc)$$cc$$sep$\\$endfor$}
$endif$
$if(ps)$
\ps{$ps$}
$endif$
\end{letter}
```

# Structure of a template



# before-title.tex

# Adapting for your own organization

- Fork the repository at  
<https://github.com/quarto-monash/<name>>
- Edit the relevant files to remove Monash branding and add your own styling.