

ECOM40006/ECOM90013

Econometrics 3

You know who I am

Chris Skeels

Week 1 Exercise

PLAGIARISM

Plagiarism is the presentation by a student of an assignment which has in fact been copied in whole or in part from another student's work, or from any other source (E.g. published books or periodicals), without due acknowledgement in the text.

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DECLARATION

This assignment/essay is the sole work of the author whose name appears on the Title Page and contains no material which the author has previously submitted for assessment at The University of Melbourne or elsewhere. Also, to the best of the author's knowledge and belief, the assignment/essay contains no material previously published or written by another person except where due reference is made in the text of the assignment/essay. I declare that I have read, and in undertaking this research, have complied with the University's Code of Conduct for Research. I also declare that I understand what is meant by plagiarism and that this is unacceptable; except where I have expressly indicated otherwise. This assignment/essay is my own work and does not contain any plagiarised material in the form of unacknowledged quotations or mathematical workings or in any other form.

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Signed: X
Chris Skeels

Date: March 2, 2025

The L^AT_EX that I used to generate the Tutorial Exercise appears on the next couple of pages. My BibT_EX entries appear immediately below.¹

```
@article{abadir99 ,
  author = {Karim M. Abadir},
  title = {An Introduction to Hypergeometric Functions
           For Economists},
  journal = {Econometric Reviews},
  year = 1999,
  volume = 18,
  number = 3,
  pages = {287--330}
}

@book{rao, author = {Calyampudi Radhakrishna Rao},
  title = {Linear Statistical Inference and Its Applications},
  edition = {Second},
  publisher = {John Wiley & Sons, Inc.},
  year = 1973,
  address = {New York}
}
```

Finally, in order to do it all you need the file `E3_Preamble.tex` in which I store all sorts of information that gets used in almost everything I produce for you. I attach that file along with this one in the solutions. The end result is what started all this.

¹Note the use of a double hyphen to specify a page range. Strictly -- produces what is called an En-dash, which is used for number ranges. You use a single hyphen for a hyphenated word, like non-singular, and a triple hyphen --- to get an Em-dash —. See <https://www.thepunctuationguide.com/en-dash.html> for more on these versatile creatures. In L^AT_EX there is also the minus sign, which is what you get when you use a hyphen in math mode, e.g., $x - y$. These symbols are all different and they all have different applications.

```

\input{E3_Preamble.tex}

\title{Week 1 Tutorial Exercise Solutions}

\begin{document}

\maketitle
\enlargethispage{\baselineskip}
\thispagestyle{empty}
\begin{enumerate}
\item
\begin{enumerate}
\item Download LaTeX.zip from the LMS and expand the archive (if
that doesn't happen automatically). Inside the folder that is
created is another folder called 'Assignment Template', which
contains a file called assignment.tex. Open this file in a text
editor. (Specifically, do not use Word or any other editor that
will insert hidden material in the file. A plain text editor
like Notebook (on Windows) or TextEdit (on a Mac), or better
still a LaTeX-aware editor of some description.)

\item Having opened assignment.tex you will see that there is a set of
places where you need to insert information about yourself, your
subject, and the task at hand, e.g. Exercise 1. Enter these details
into your file and then save it with a name other than assignment.tex.
It is helpful to use names that allow you to discern what is inside
the file without opening it. For example, ECOM3-Ex1.tex might work
for me. You use whatever name you wish.

\item From the Library catalogue, obtain the Bib\TeX\ entry
corresponding to \citet{abadir99}. Also, manually create the Bib\TeX\
entry for \citet{rao}. Add both entries to a .bib file and include
the contents of the .bib file in your report. (You may want to
explore the use of the \texttt{listings} package to do this.)

\item Do a web search for knitr. (Yes, that is how it is
spelt.) If you end up at the Wikipedia page then follow the
link to
\url{https://github.com/yihui/knitr-examples/blob/master/002-minimal.Rnw}
to see a very basic example of it's use. Convince yourself that
you can run your favourite regression in R and incorporate the
results using knitr.
\end{enumerate}
\end{enumerate}

\item Use \LaTeX, strictly pdf\LaTeX, to re-create the pdf document
containing this Tutorial Exercise. You must create a .bib file for
the references and include the text of that file in your report.
(You

```

may want to explore the use of the `\texttt{listings}` package to do this.). If using Bib_{TeX} then you probably need to read the documentation for the `\texttt{natbib}` package to see how to cite material. You may also need to use the `\texttt{url}` package to add the URL or the `\texttt{hyperref}` package.

```
\end{enumerate}
```

```
\bibliography{theNameOfYourBibFile}
```

```
% My Bib file is called CHRIS.bib, so I would just put CHRIS here.
```

```
\end{document}
```