


RESEARCH ARTICLE

Sample for Environmental Data Science Class file

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Keywords: keyword1, keyword2, keyword3, keyword4

Abstract

Abstracts should be 250 words. It must be able to stand alone and so cannot contain citations to the paper's references, equations, etc. An abstract must consist of a single paragraph and be concise. Because of online formatting, abstracts must appear as plain as possible.

Impact Statement

This position paper discusses the importance of the recent yet important branch called Data-Centric Engineering. It is meant to be accessible for a wide readership and to shed light on this perhaps still abstract expression. Especially the fact that the paper is jointly written by a statistician, an engineer, and a software developer that guarantees a multi-faceted view.

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3. Equations

Equations in L^AT_EX can either be inline or on-a-line by itself. For inline equations use the $\$ \dots \$$ commands. Eg: The equation $H\psi = E\psi$ is written via the command $H\psi = E\psi$.

For on-a-line by itself equations (with auto generated equation numbers) one can use the equation or eqnarray environments D .

$$\mathcal{L} = i\bar{\psi}\gamma^{\mu}D_{\mu}\psi - \frac{1}{4}F_{\mu\nu}^a F^{a\mu\nu} - m\bar{\psi}\psi \quad (1)$$

where,

$$\begin{aligned} D_{\mu} &= \partial_{\mu} - ig\frac{\lambda^a}{2}A_{\mu}^a \\ F_{\mu\nu}^a &= \partial_{\mu}A_{\nu}^a - \partial_{\nu}A_{\mu}^a + gf^{abc}A_{\mu}^bA_{\nu}^a \end{aligned} \quad (2)$$

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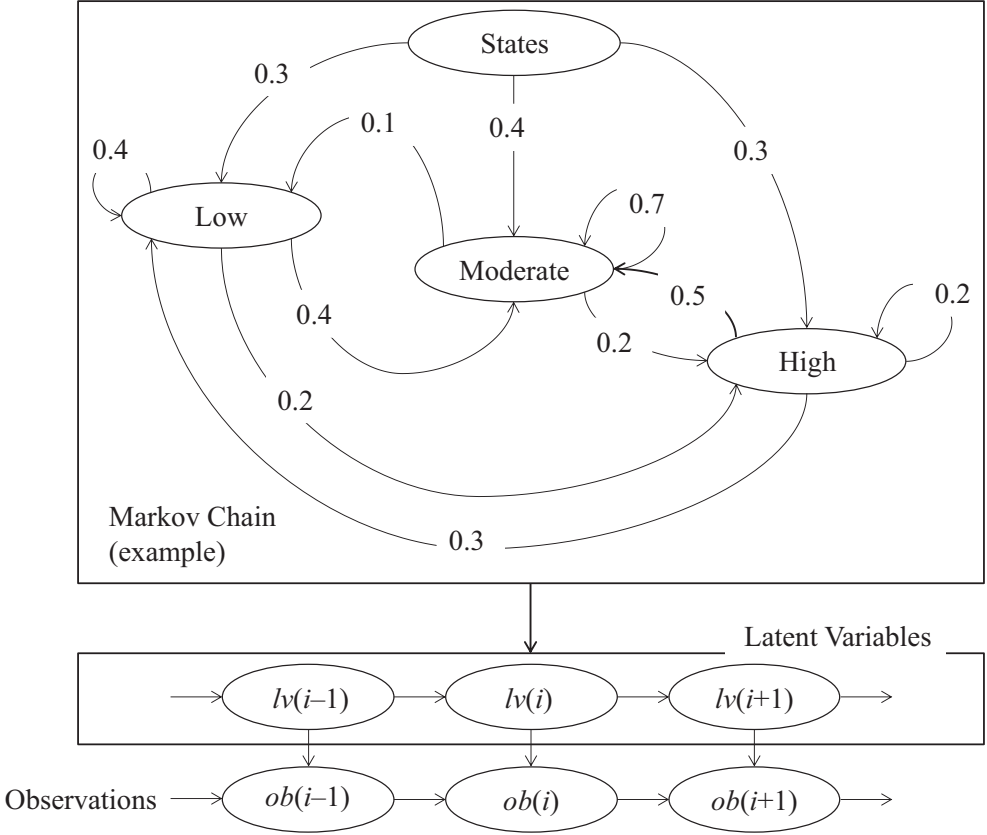


Figure 1. This is a widefig. This is an example of long caption this is an example of long caption this is an example of long caption this is an example of long caption.

Notice the use of `\nonumber` in the align environment at the end of each line, except the last, so as not to produce equation numbers on lines where no equation numbers are required. The `\label{ }` command should only be used at the last line of an align environment where `\nonumber` is not used.

$$Y_{\infty} = \left(\frac{m}{\text{GeV}} \right)^{-3} \left[1 + \frac{3 \ln(m/\text{GeV})}{15} + \frac{\ln(c_2/5)}{15} \right] \quad (3)$$

The class file also supports the use of `\mathbb{ }`, `\mathscr{ }` and `\mathcal{ }` commands. As such `\mathbb{R}`, `\mathscr{R}` and `\mathcal{R}` produces \mathbb{R} , \mathscr{R} and \mathcal{R} respectively.

4. Figures

As per the \LaTeX standards eps images in latex and pdf/jpg/png images in pdflatex should be used. This is one of the major differences between latex and pdflatex. The images should be single page documents. The command for inserting images for latex and pdflatex can be generalized. The package that should be used is the graphicx package.

Table 1. Tables which are too long to fit, should be written using the “table*” environment as shown here

Projectile	Element 1			Element 2 ¹		
	Energy	σ_{calc}	σ_{expt}	Energy	σ_{calc}	σ_{expt}
Element 3	990 A	1168	1547 ± 12	780 A	1166	1239 ± 100
Element 4	500 A	961	922 ± 10	900 A	1268	1092 ± 40

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5. Tables

Tables can be inserted via the normal table and tabular environment. To put footnotes inside tables one has to use the additional “fntable” environment enclosing the tabular environment. The footnote appears just below the table itself.

6. Cross referencing

Environments such as figure, table, equation, align can have a label declared via the \label{#label} command. For figures and table environments one should use the \label{} command inside or just below the \caption{} command. One can then use the \ref{#label} command to cross-reference them. As an example, consider the label declared for Figure 1 which is \label{fig1}. To cross-reference it, use the command Figure \ref{fig1}, for which it comes up as “Figure 1”. The reference citations should used as per the “natbib” packages. Some sample citations: Ananin A. and Mironov A. (2000); Bai C. and Meng D. (2001); Cañete E. and Khudoyberdiyev A. (2013); Goze M. and Remm E. (2011); Petersson H. (2000).

7. Lists

List in L^AT_EX can be of three types: enumerate, itemize and description. In each environments, new entry is added via the \item command. Enumerate creates numbered lists, itemize creates bulleted lists and description creates description lists.

1. First item in the number list.
2. Second item in the number list.
3. Third item in the number list.

List in L^AT_EX can be of three types: enumerate, itemize and description. In each environments, new entry is added via the \item command.

- First item in the bullet list.
- Second item in the bullet list.
- Third item in the bullet list.

A. Appendix. Title for Appendix Section

Appendix text here.

B. Conclusion

Some Conclusions here.

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Competing Interests. A statement about any financial, professional, contractual or personal relationships or situations that could be perceived to impact the presentation of the work — or ‘None’ if none exist

Data Availability Statement. A statement about how to access data, code and other materials allowing users to understand, verify and replicate findings — e.g. Replication data and code can be found in Harvard Dataverse: \url{https://doi.org/link}.

Ethical Standards. The research meets all ethical guidelines, including adherence to the legal requirements of the study country.

Author Contributions. Please provide an author contributions statement using the CRediT taxonomy roles as a guide \url{https://www.casrai.org/credit.html}. Conceptualization: A.A; A.B. Methodology: A.A; A.B. Data curation: A.C. Data visualisation: A.C. Writing original draft: A.A; A.B. All authors approved the final submitted draft.

Supplementary Material. State whether any supplementary material intended for publication has been provided with the submission.

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