# This is the title: v1.3

Firstname Middlename Surname $^{1*}$ , Firstname Middlename Familyname $^{1,2\dagger\$}$ , Firstname Initials Surname $^{2\dagger}$ , Firstname Surname $^{2*}$ 

<sup>1</sup>Institution 1; <sup>2</sup>Institution 2

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This version dated March 28. 2018

**Abstract** Please provide an abstract of no more than 250 words. Your abstract should explain the main contributions of your article, and should not contain any material that is not included in the main text. Please note that your abstract, plus the authorship material following it, must not extend beyond the title page or modifications to the LaTeX class will likely be needed.

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email1@example.com (FMS); email2@example.com (FS)

Present address: §Department, Institute, Country; ¶Department, Institute, Country

## 1 Introduction (Level 1 heading)

Your introduction goes here! Some examples of commonly used commands and features are listed below, to help you get started.

Here's a second paragraph to test paragraph indents. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

## 2 Results (Level 1 heading)

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<sup>&</sup>lt;sup>†</sup>These authors contributed equally to this work

<sup>&</sup>lt;sup>‡</sup>These authors also contributed equally to this work

FIRST LIST  You can easily make full width checklists that take a whole page  ☐ First thing let's do an item which breaks across lines to see how that looks ☐ Also remember ☐ And finally
SECOND LIST This is some further description.  □ First thing □ Also remember □ And finally
THIRD LIST This is some further description.  □ First thing □ Also remember □ And finally
FOURTH LIST This is some further description.    First thing   Also remember   And finally

FIFTH LIST					
Full-width checklists on less than a single page are also possible					
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SIXTH LIST					
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#### **SEVENTH LIST**

Single-column checklists are also straightforward by removing the asterisk

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- ☐ Also remember
- ☐ And finally

#### **EIGHTH LIST**

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massa.

### 2.1 Level 2 Heading

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## 2.1.1 Level 3 Heading

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### Level 4 Heading

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#### 3 Discussion

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Table 1. Automobile Land Speed Records (GR 5-10).

Speed (mph)	Driver	Car	Engine	Date
407.447	Craig Breedlove	Spirit of America	GE J47	8/5/63
413.199	Tom Green	Wingfoot Express	WE J46	10/2/64
434.22	Art Arfons	Green Monster	GE J79	10/5/64
468.719	Craig Breedlove	Spirit of America	GE J79	10/13/64
526.277	Craig Breedlove	Spirit of America	GE J79	10/15/65
536.712	Art Arfons	Green Monster	GE J79	10/27/65
555.127	Craig Breedlove	Spirit of America, Sonic 1	GE J79	11/2/65
576.553	Art Arfons	Green Monster	GE J79	11/7/65
600.601	Craig Breedlove	Spirit of America, Sonic 1	GE J79	11/15/65
622.407	Gary Gabelich	Blue Flame	Rocket	10/23/70
633.468	Richard Noble	Thrust 2	RR RG 146	10/4/83
763.035	Andy Green	Thrust SSC	RR Spey	10/15/97

Source: https://www.sedl.org/afterschool/toolkits/science/pdf/ast\_sci\_data\_tables\_sample.pdf

**Table 1-source data 1.** This is a description of a data source.

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### 4 Methods and Materials

Guidelines can be included for standard research article sections, such as this one.

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## 5 Some LATEX Examples

Use section and subsection commands to organize your document. 上下上X handles all the formatting and numbering automatically. Use ref and label commands for cross-references.

## 5.1 Figures and Tables

Use the table and tabular commands for basic tables — see *Table 1*, for example.

To include an image (JPEG, PNG or PDF) in your document, use the \includegraphics command as in the code for *Figure 2*.

If you use the following prefixes for your \label:

Figures fig:, e.g. \label{fig:view}
Tables tab:, e.g. \label{tab:example}
Equations eq:, e.g. \label{eq:CLT}
Boxes box:, e.g. \label{box:simple}

you can then use the convenience commands \FIG{view}, \TABLE{example}, \EQ{CLT} and \BOX{simple} without the label prefixes, to generate cross-references Figure 2, Table 1, Equation 1 and Box 1. Alternatively, use \autoref with the full label, e.g. Appendix A (although this may not work correctly for figures and tables in the appendices or boxes nor supplements at present).

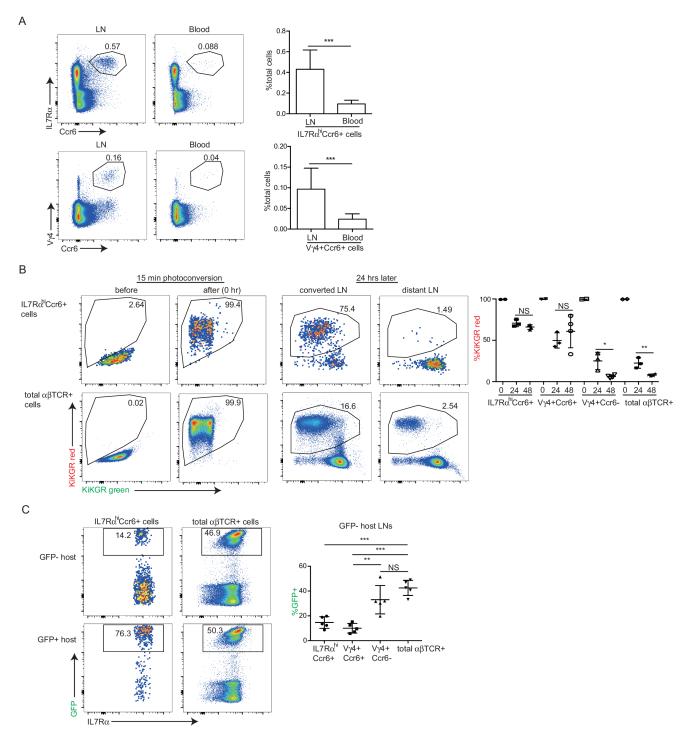
Really wide figures or tables, that take up the entire text width: use \begin{figure\*}...\end{figure\*} as in *Figure 1*. And sometimes you may want to use feature boxes like *Box 1*.

#### 5.2 Algorithms and Pseudocode

The algpseudocode and algorithms packages is loaded by the document class. *Algorithm 1* was taken directly from the package documentation. (Please do not load algorithm2e; it's not compatible with algpseudocde nor algorithms!)

#### 5.3 Citations

LaTeX formats citations and references automatically using the bibliography records in your .bib file, which you can edit



**Figure 1.** A very wide figure that takes up the entire page, including the gutter space.

**Figure 1-Figure supplement 1.** There is no limit on the number of Figure Supplements for any one primary figure. Each figure supplement should be clearly labeled, Figure 1-Figure Supplement 1, Figure 1-Figure Supplement 2, Figure 2-Figure Supplement 1 and so on, and have a short title (and optional legend). Figure Supplements should be referred to in the legend of the associated primary figure, and should also be listed at the end of the article text file.

Algorithm 1. Euclid's algorithm

```
procedure EUCLID(a, b)\triangleright The g.c.d. of a and br \leftarrow a \mod b\triangleright We have the answer if r is 0a \leftarrow bb \leftarrow rr \leftarrow a \mod bend whilereturn b\triangleright The gcd is bend procedure
```

via the project menu. Use the \cite command for an inline citation, like [1], and the \citep command for a citation in parentheses [2]. The LaTeX template uses a slightly-modified Vancouver bibliography style.

#### 5.4 Mathematics

 $\Delta T_E X$  is great at typesetting mathematics. Let  $X_1, X_2, \ldots, X_n$  be a sequence of independent and identically distributed random variables with  $E[X_i] = \mu$  and  $Var[X_i] = \sigma^2 < \infty$ , and let

$$S_n = \frac{X_1 + X_2 + \dots + X_n}{n} = \frac{1}{n} \sum_{i=1}^{n} X_i$$
 (1)

denote their mean. Then as n approaches infinity, the random variables  $\sqrt{n}(S_n - \mu)$  converge in distribution to a normal  $\mathcal{N}(0, \sigma^2)$ .

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## **5.5 Other Chemistry Niceties**

You can use commands from the mhchem and siunitx packages. For example:  $C_{32}H_{64}NO_7S$ ; 5 µm; 30 °C; 5 × 10<sup>-17</sup> M

#### 5.6 Lists

You can make lists with automatic numbering ...

- 1. Like this,
- 2. and like this.

... or bullet points ...

## Box 1. This is an example feature box

This is a feature box. It floats!



**Box 1 Figure 1.** 'Figure' and 'table' captions in feature boxes should be entered with \featurefig and \featuretable. They're not really floats.

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- · Like this,
- and like this.

... or with words and descriptions ...

Word Definition
Concept Explanation

**Idea** Text

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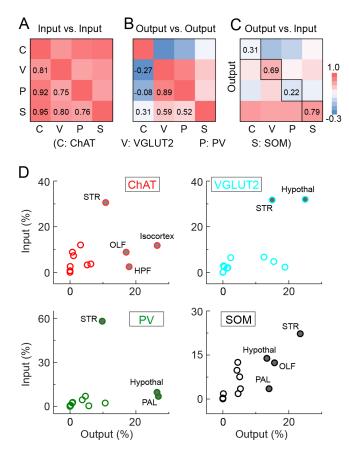


Figure 2. A column-width example.

**Figure 2-Figure supplement 1.** Shorter caption for main text. **Figure 2-Figure supplement 2.** This is another supplementary figure.

**Figure 2-source data 1.** This is a description of a data source.

Figure 2-source data 2. This is another description of a data source.

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### 6 Author Contributions

FMS wrote sections X and Z. RMS contributed to the writing of sections Y and W. TMP contributed to the writing of sections Y and W. ITP contributed to all sections. ADP wrote sections W and Y, performed and analyzed the experiments in Z, made figures 4-6, and edited the whole manuscript as well as standardizing table formatting. For a more detailed description of contributions, see the GitHub issue tracking and changelog at https://github.com/myaccount/homegithubrepository.

## 7 Other Contributions

EGP provided inportant insights on the challenges faced by nonequilibrium simulations. FTP provided several key cita-

tions on energy conservation. For a more detailed description of contributions, see the GitHub issue tracking and changelog at https://github.com/myaccount/homegithubrepository.

## 8 Potentially Conflicting Interests

EGP has a 40% equity stake in the ReallyGoodSimulations company, which sells molecular dynamics code. DMD is a developer of the package EvenBetterMD, which is recommended in this article.

## 9 Funding Information

FMS acknowledges the support of NSF grant CHE-1111111.

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## **Appendix A** Firstly

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Appendix A Figure 1. This is a figure in the appendix

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## Appendix B Secondly

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**Appendix B Figure 1.** This is a figure in the appendix



**Appendix B Figure 2.** This is a figure in the appendix



**Figure 1–Figure supplement 1.** There is no limit on the number of Figure Supplements for any one primary figure. Each figure supplement should be clearly labeled, Figure 1–Figure Supplement 1, Figure 1–Figure Supplement 2, Figure 2–Figure Supplement 1 and so on, and have a short title (and optional legend). Figure Supplements should be referred to in the legend of the associated primary figure, and should also be listed at the end of the article text file.



**Figure 2-Figure supplement 1.** This is a supplementary figure's full caption, which will be used at the end of the manuscript.



**Figure 2–Figure supplement 2.** This is another supplementary figure.