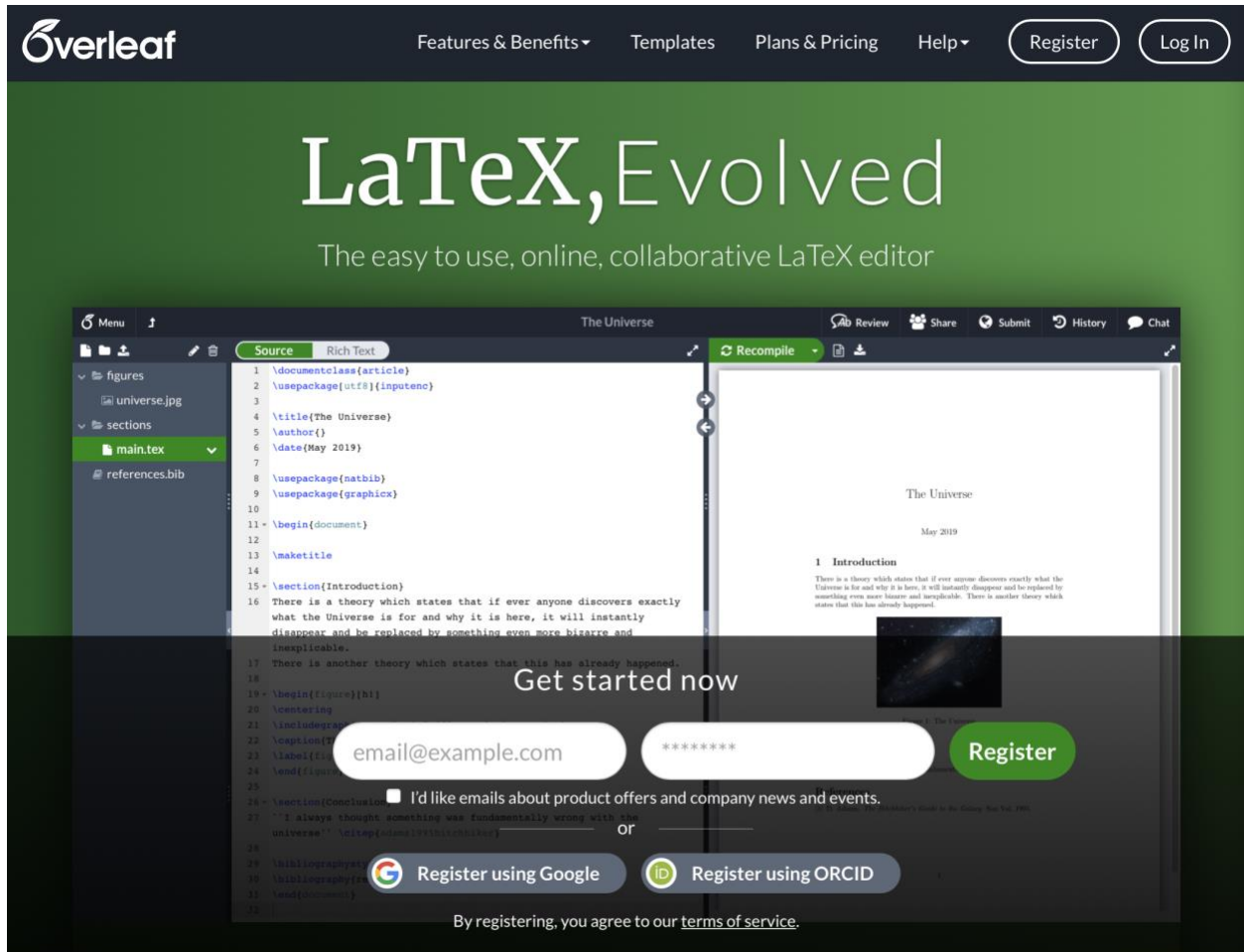


Prepare a manuscript for submission using Overleaf

Yongjie Huang (huangynj@gmail.com) & Ming Xue (OU/CAPS), February 2, 2022

1. Go to Overleaf website (<https://www.overleaf.com>), register an account, and log in.



2. Download LaTeX template from journal website. For example, AMS: “AMS LaTeX Package V6.1.zip”

<https://www.ametsoc.org/index.cfm/ams/publications/author-information/latex-author-info/>

LaTeX Submissions

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The AMS LaTeX support team is available to help resolve issues related to the use of AMS LaTeX files for submissions to the AMS and the submission of AMS LaTeX files to the Editorial Manager system. Please note that we are unable to devote resources to answering other general LaTeX questions or to troubleshoot issues with non-AMS templates.

Upgrade to TeX Live 2021

If you have not already done so, we recommend that you upgrade to [TeX Live 2021](#). We also suggest to authors to use the TeXworks editor that is included in the TeX Live download. If your PDF compiles in TeXworks running TeX Live 2020 or 2021, then it should compile correctly when you submit your files to Editorial Manager.

Common LaTeX Submission Issues

Below are some of the most common problems authors face when submitting a LaTeX manuscript to Editorial Manager:

- **Missing files:** Be sure to include all template and source files when uploading your files to the EM system, including ametsocV6.1.cls, ametsocV6.bst, and all figure files.
- **Incorrect item type:** All figure files should be designated with EM's "Rendered Figure" item type. All LaTeX files uploaded to EM must have the item type "LaTeX File (.tex, .sty, .cls, .bst, .bib)."
- **Duplicate files:** If you upload your LaTeX source files, do not upload a PDF of your LaTeX paper.
- **Incorrect file type:** Do not upload a .bbl file. You must either upload the .bib file or the contents of the .bbl file should be pasted into your .tex file.
- **Directory paths in figures:** All directory paths need to be removed from figure names (e.g., `\includegraphics [width=28pc] {fig1.pdf}`), NOT `\includegraphics [width=28pc] {myfigures/fig1.pdf}`).
- **Extra periods or underscores in figure file names:** All periods in figure file names should be removed, except for those preceding the file extension. The EM system will read anything after the first period as the file extension. Therefore, figure names with additional periods will prevent your PDF from building properly. Underscores should also be removed, as these can sometimes be read as math commands, causing an error and preventing your PDF from building.
- **Unicode characters:** Unicode characters that are not compatible with LaTeX are often inserted when text is copied from another source and is pasted into a .tex or .bib file. These characters need to be replaced with the appropriate character or defined in the preamble of the .tex file using the `\DeclareUnicodeCharacter` command. See #10 in the [FAQ](#).

[Preparing a LaTeX Manuscript for Submission >](#)

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[FAQ for LaTeX Authors >](#)

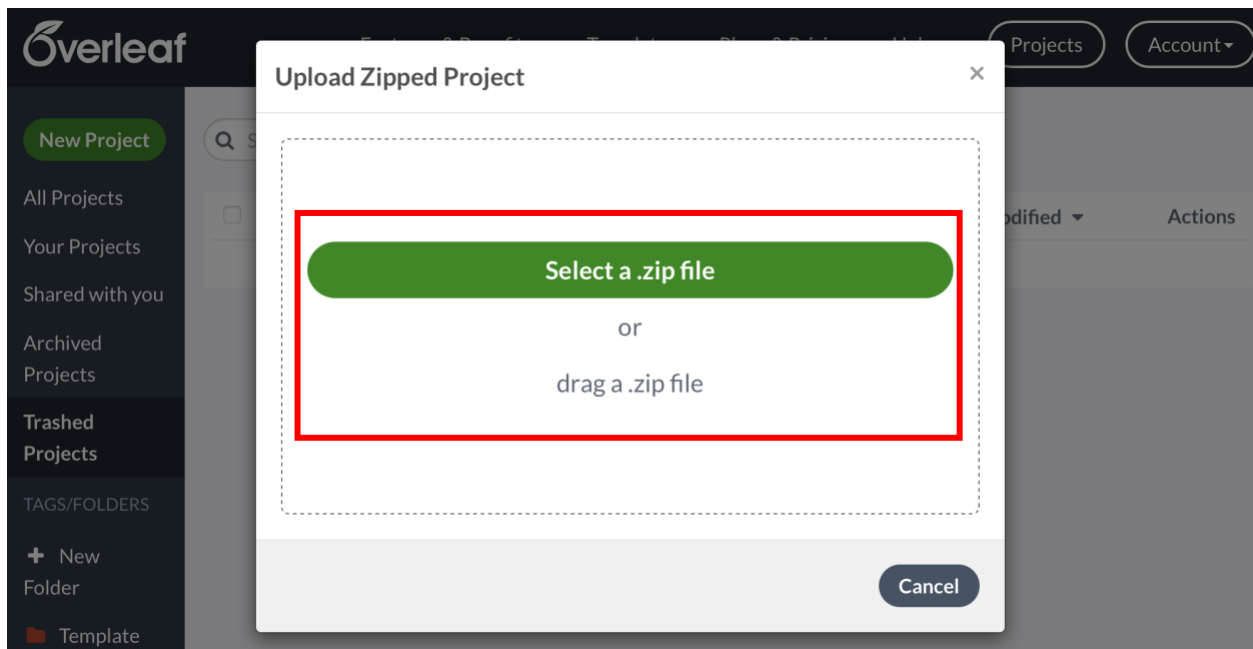
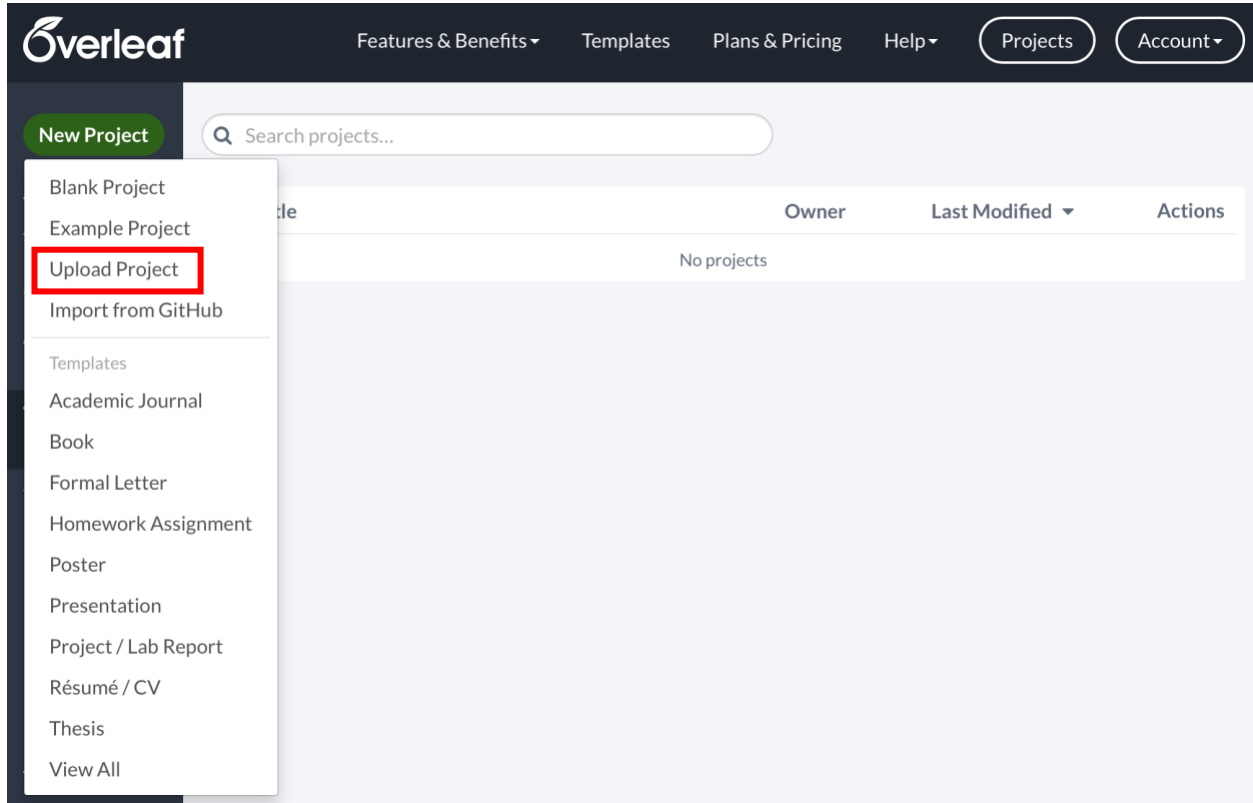
[Documentation for AMS LaTeX template >](#)

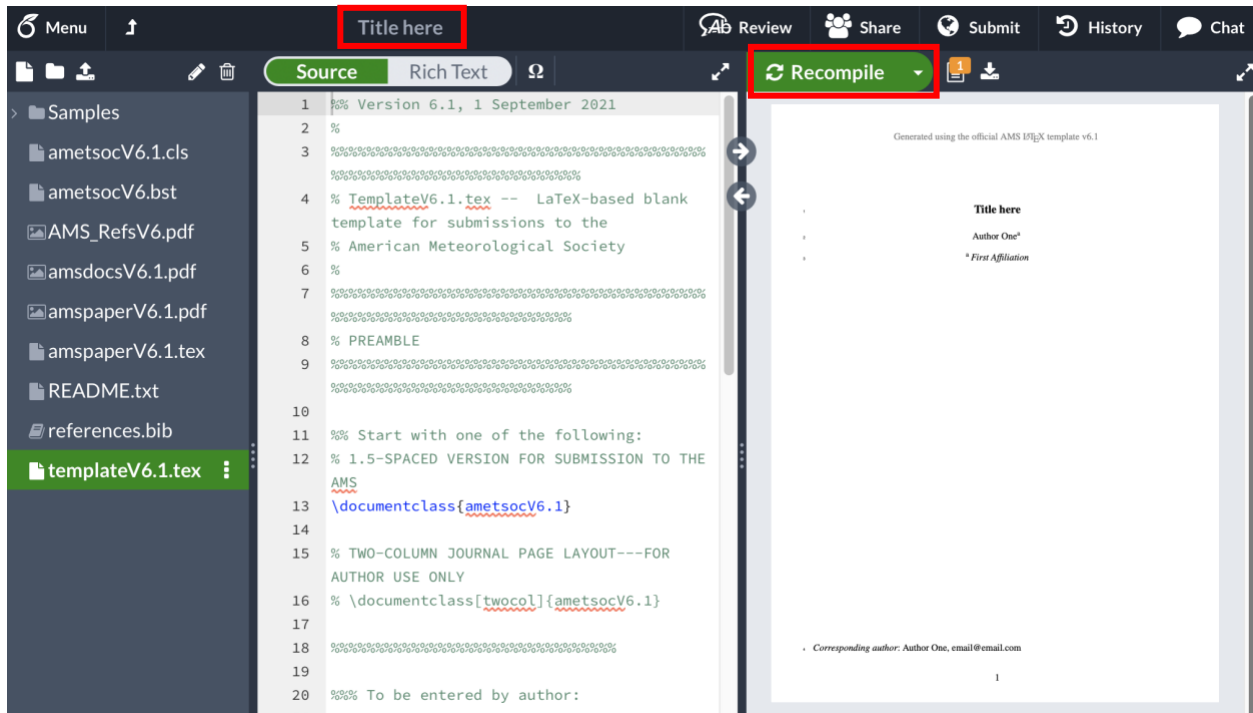
[LaTeX Template >](#)

(zip) Version 6.1, released 1 September 2021

NOTE: Version 6.1 is the most up-to-date version; please replace any older saved files on your own computer with this version.

3. Create a project through clicking “New Project”, you can choose “Upload Project”, and upload the .zip file just downloaded. After the project is created, you can change the project title to whatever you want.





4. Follow the detailed instruction of the LaTeX template (.tex file), and replace the corresponding parts with yours, e.g., title, authors, abstract, main text, etc. You can click “Recompile” to see the results of your modifications in real time.

You may need to learn very basic LaTeX grammar, e.g., equations, figures, tables (https://www.overleaf.com/learn/latex/Learn_LaTeX_in_30_minutes). If you don’t know, just Google it! Here is a quick guide to LaTeX (<https://v1.overleaf.com/latex/templates/a-quick-guide-to-latex/fghqpfgnxggz.pdf>) for your reference.

Practice: try to write the following equations in LaTeX

$$\frac{\partial \mathbf{v}}{\partial t} + \mathbf{v} \cdot \nabla \mathbf{v} = -\alpha_0 \nabla p' + B \mathbf{k} - f \mathbf{k} \times \mathbf{v}$$

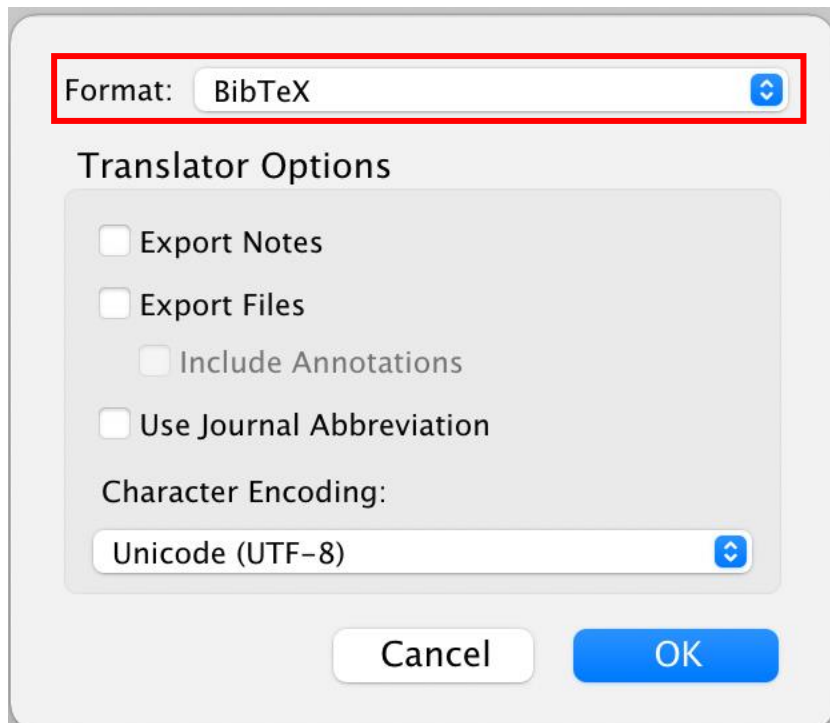
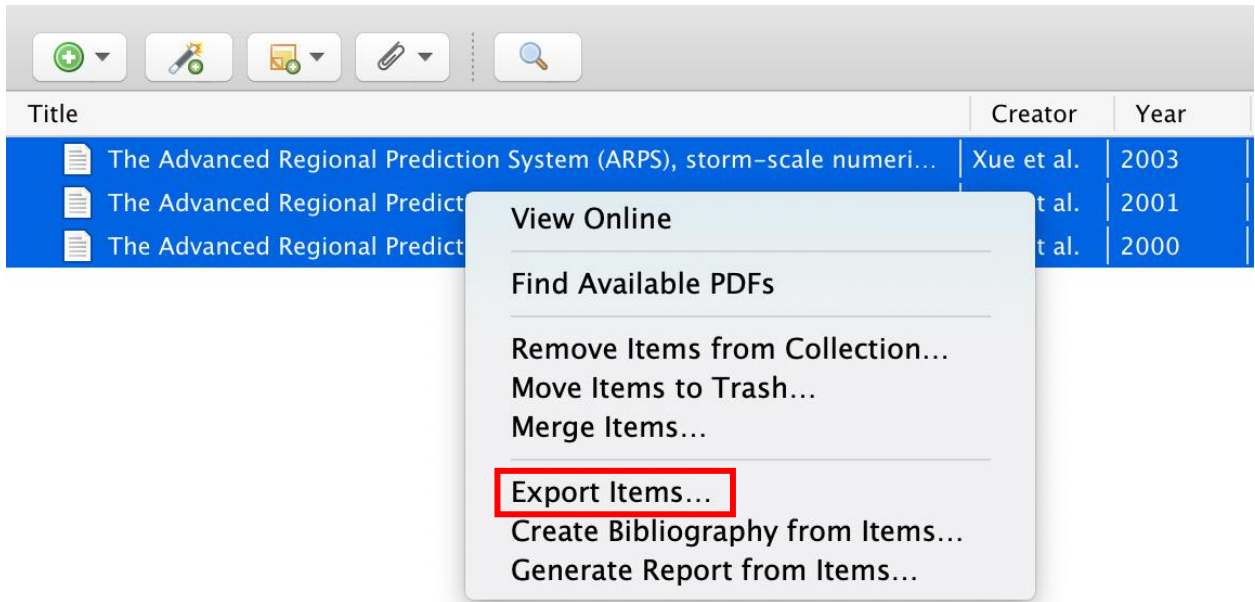
$$\partial C / \partial t = \oint [-\zeta \mathbf{v}_h + w(\nabla \times \mathbf{v})_h] \cdot \mathbf{ndl}$$

$$\text{FSS} = 1 - \frac{\frac{1}{N} \sum_{i=1}^N (P_f - P_o)^2}{\frac{1}{N} \sum_{i=1}^N P_f^2 + \frac{1}{N} \sum_{i=1}^N P_o^2}$$

5. Prepare your BibTeX bibliography, .bib file, for references with software EndNote, Zotero (free), Google Scholar (recommended, don't need to install software, free), etc.

Zotero:

Select the papers you want to export and right click, select "Export Items..." and then "BibTeX" format:



Google Scholar:

search papers through Google Scholar, click “Cite” button of the paper you want to cite, click “BibTeX”, and then copy the text to your .bib file. The imperfect thing is that there is no “doi” in the text. So, you need to click the link to the paper website and get the “doi”.

The screenshot shows the Google Scholar search interface. The search bar contains the text "ou caps arps". Below the search bar, there are three search results. The first result is titled "[PDF] The Advanced Regional Prediction System (ARPS), storm-scale numerical weather prediction and data assimilation." and is from ou.edu. The second result is titled "The Advanced Regional Prediction System (ARPS)—A multi-scale nonhydrostatic atmospheric simulation and prediction model. Part I: Model dynamics and verification" and is from springer.com. The third result is titled "The Wind Forecast Improvement Project (WFIP): A public/private partnership for improving short term wind energy forecasts and quantifying the benefits of utility ..." and is from osti.gov. A red arrow points to the "Cite" button of the third result. The left sidebar contains filters for time, sort order, type, and alert creation.

Articles About 15,100 results (0.11 sec) My profile

Any time
Since 2022
Since 2021
Since 2018
Custom range...

Sort by relevance
Sort by date

Any type
Review articles

include patents
 include citations

Create alert

[PDF] The Advanced Regional Prediction System (ARPS), storm-scale numerical weather prediction and data assimilation. [PDF] ou.edu
Check OU Access
M Xue, D Wang, J Gao, K Brewster... - ... & Atmospheric Physics, 2003 - kkd.ou.edu
... Since then, many improvements have been made to the system and many sub-releases were made available on the CAPS anonymous FTP server (ftp://ftp.caps.ou.edu=ARPS). In late 2000, the entire system was converted to Fortran 90 free-format using an automatic code ...
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The Advanced Regional Prediction System (ARPS)—A multi-scale nonhydrostatic atmospheric simulation and prediction model. Part I: Model dynamics and verification [PDF] springer.com
Check OU Access
M Xue, KK Droegemeier, V Wong - Meteorology and atmospheric physics, 2000 - Springer
... In planning for its development, the ARPS was required to meet a number of criteria. First, it ... framework of the forward prediction component of the ARPS system. We will describe in Sect. ... and the online documentations of the ARPS are available at http://www.caps.ou.edu/ ARPS. ...
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The Wind Forecast Improvement Project (WFIP): A public/private partnership for improving short term wind energy forecasts and quantifying the benefits of utility ... [PDF] osti.gov
JM Freedman, J Manobianco, J Sch... B Ancell... - 2014 - osti.gov
... OU CAPS ARPS simulations ... OU CAPS ...
☆ Save Cite Cited by 20 Related articles All 2 versions

The screenshot shows a 'Cite' dialog box with the following citation styles:

- MLA**: Xue, Ming, Kelvin K. Droegemeier, and Vince Wong. "The Advanced Regional Prediction System (ARPS)—A multi-scale nonhydrostatic atmospheric simulation and prediction model. Part I: Model dynamics and verification." *Meteorology and atmospheric physics* 75.3 (2000): 161-193.
- APA**: Xue, M., Droegemeier, K. K., & Wong, V. (2000). The Advanced Regional Prediction System (ARPS)—A multi-scale nonhydrostatic atmospheric simulation and prediction model. Part I: Model dynamics and verification. *Meteorology and atmospheric physics*, 75(3), 161-193.
- Chicago**: Xue, Ming, Kelvin K. Droegemeier, and Vince Wong. "The Advanced Regional Prediction System (ARPS)—A multi-scale nonhydrostatic atmospheric simulation and prediction model. Part I: Model dynamics and verification." *Meteorology and atmospheric physics* 75, no. 3 (2000): 161-193.
- Harvard**: Xue, M., Droegemeier, K.K. and Wong, V., 2000. The Advanced Regional Prediction System (ARPS)—A multi-scale nonhydrostatic atmospheric simulation and prediction model. Part I: Model dynamics and verification. *Meteorology and atmospheric physics*, 75(3), pp.161-193.
- Vancouver**: Xue M, Droegemeier K, Wong V. The Advanced Regional Prediction System (ARPS)—A multi-scale nonhydrostatic atmospheric simulation and prediction model. Part I: Model dynamics and verification. *Meteorology and atmospheric physics*. 2000 Dec;75(3):161-93.

At the bottom of the dialog box, there are four buttons: **BibTeX** (highlighted with a red box and a red arrow), EndNote, RefMan, and RefWorks.

- When everything is done, click “Recompile” again to make sure everything is ready. Then, you can click “Menu” in the top left corner of Overleaf project, download the Source and PDF files. Submit the manuscript following the journal Author instruction.
- Overleaf has some useful features, such as “Review” with track changes, “Share” with collaborators, but you need to upgrade your account through payment, or someone who has an upgraded account can create a project and share it with you. It means one group one upgraded account is sufficient.
You can learn more on Overleaf and LaTeX through <https://www.overleaf.com/learn>.

8. In paper revision, generally we need to generate a manuscript with track changes using “**latexdiff**”:

https://www.overleaf.com/learn/latex/Articles%2FUsing_Latexdiff_For_Marking_Changes_To_Tex_Documents.

1) **latexdiff** is a Perl script and requires an installation of Perl 5.8 or higher.

- **Windows user:**

Recommend using **MobaXterm** (<https://mobaxterm.mobatek.net/download.html>) to install Perl, use command: **apt-get install perl**

- **Mac OS X/Linux/Unix user:**

Generally, Perl has been installed in the system.

Download **latexdiff** Perl script from <https://ctan.org/tex-archive/support/latexdiff>.

2) Usage of **latexdiff**

In the command line: **latexdiff old.tex new.tex > diff.tex**

3) Upload the “diff.tex” file to Overleaf project and click the “Recompile”.