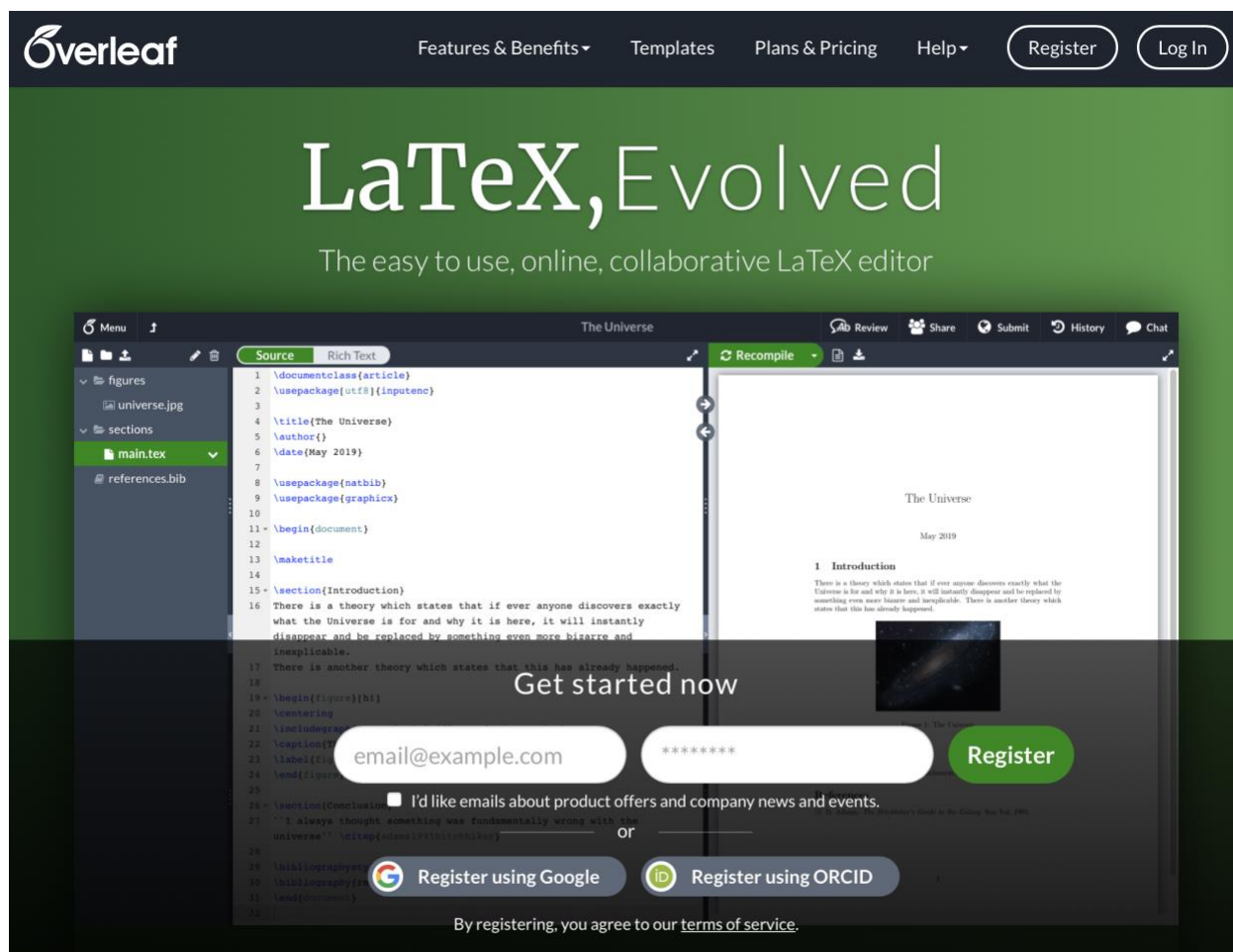


Prepare a manuscript for submission using Overleaf

Yongjie Huang (huangynj@gmail.com) & Ming Xue (OU/CAPS), January 31, 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

Preparing a LaTeX Manuscript for Submission

Troubleshooting Your Editorial Manager Submission

FAQ for LaTeX Authors

Documentation for AMS LaTeX template

LaTeX Template

Word Submissions

Page Charges, Waivers, and Fees

Initial Submission Requirements

Revision Requirements

Resubmission Requirements

Submit Manuscript

Peer Review Information

Production Information

Author Responsibilities during Production

Promote Your Work

Author Name Changes After Final Publication

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.

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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.
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- **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 ›

Troubleshooting Your Editorial Manager Submission ›

FAQ for LaTeX Authors ›

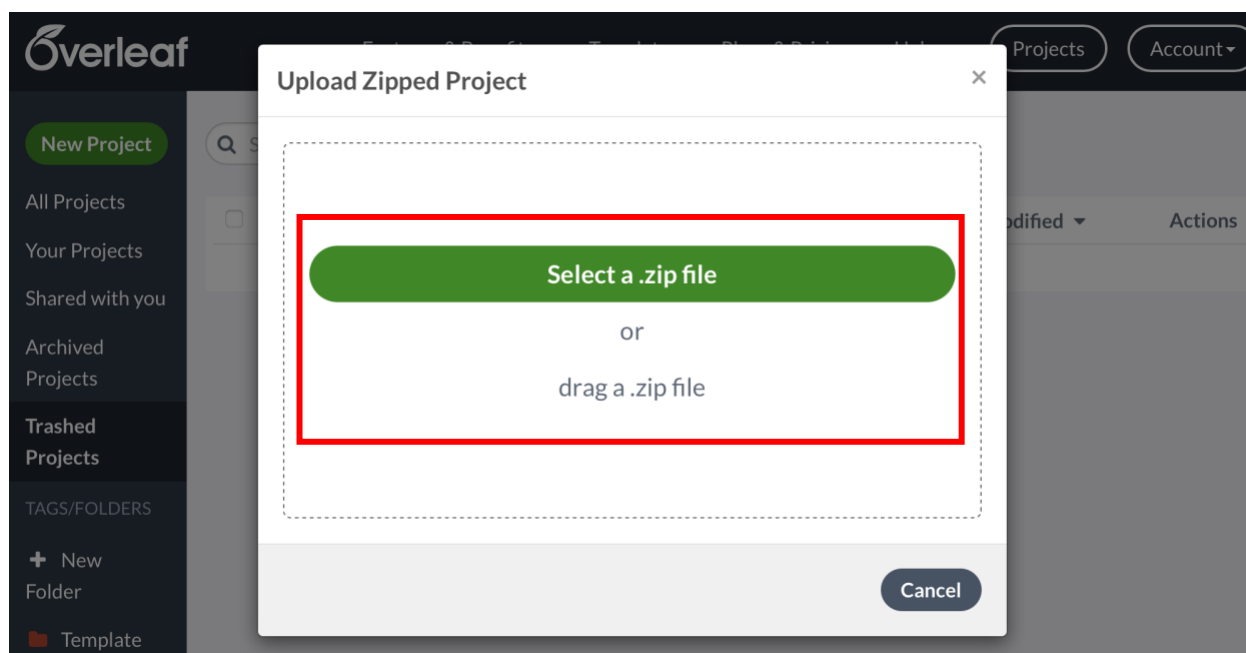
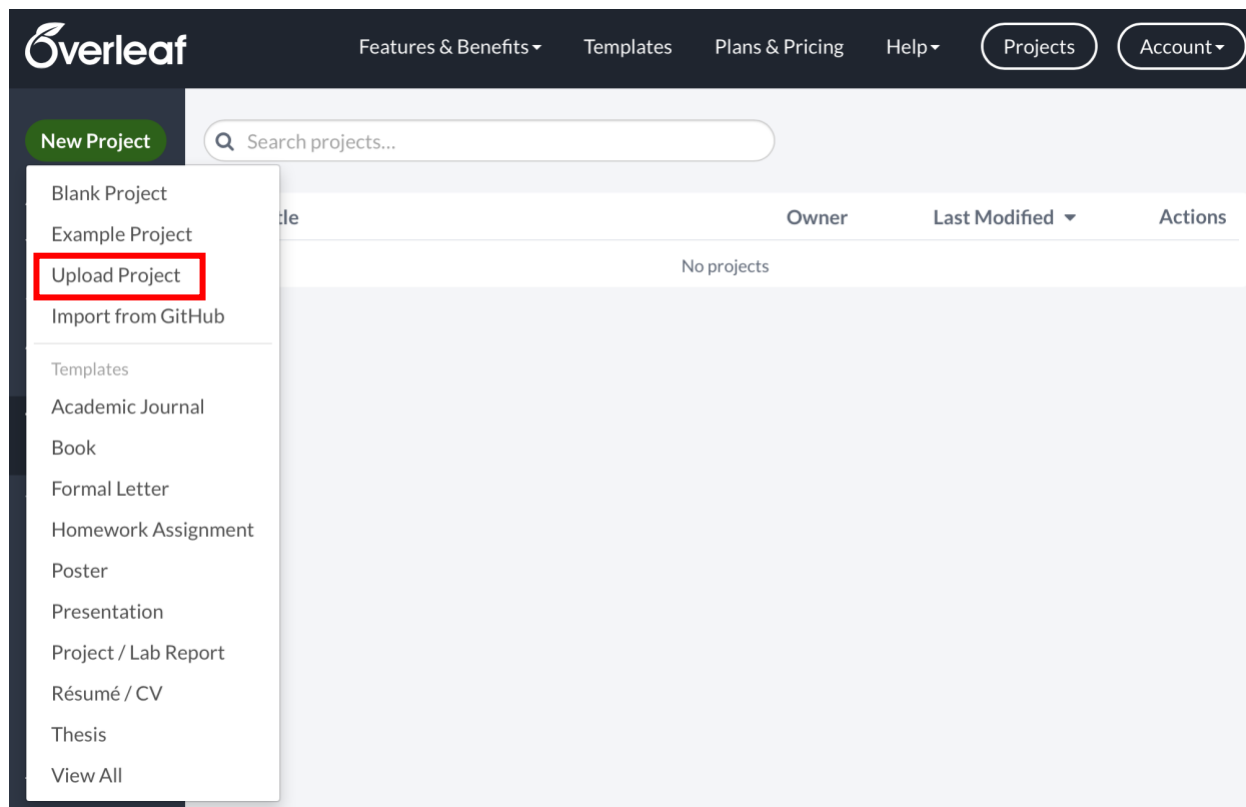
Documentation for AMS LaTeX template ›

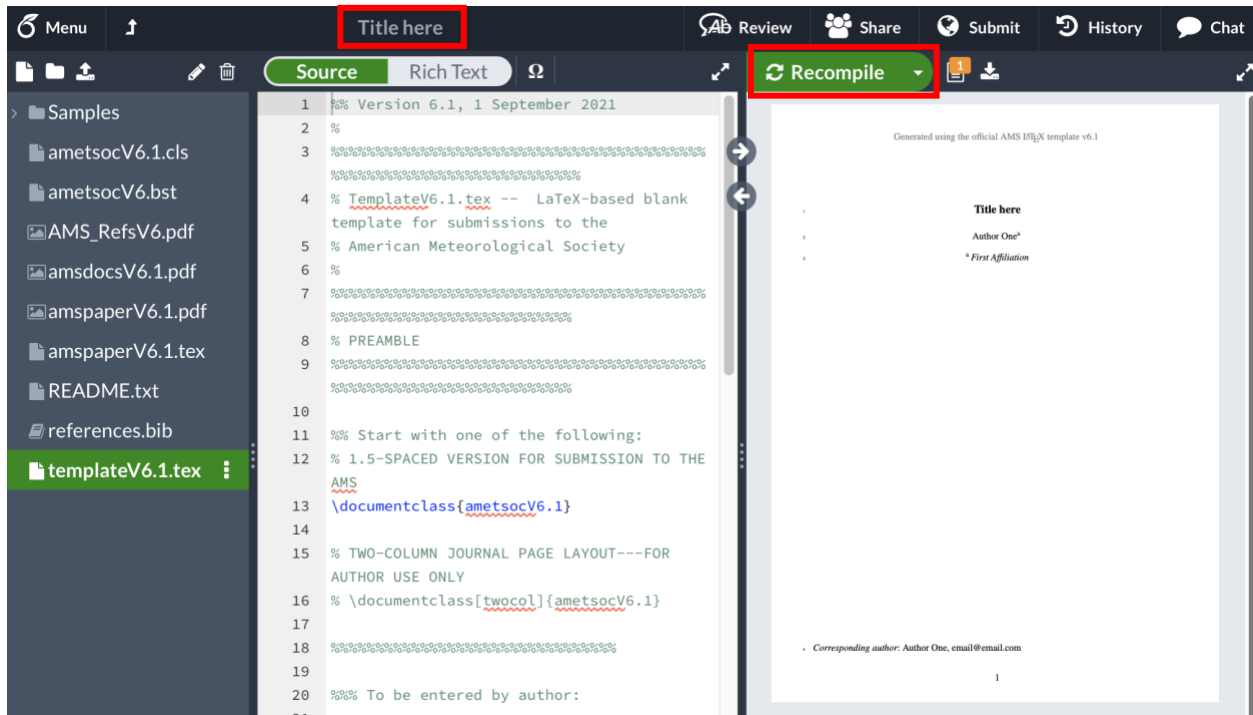
LaTeX Template ›

(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

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

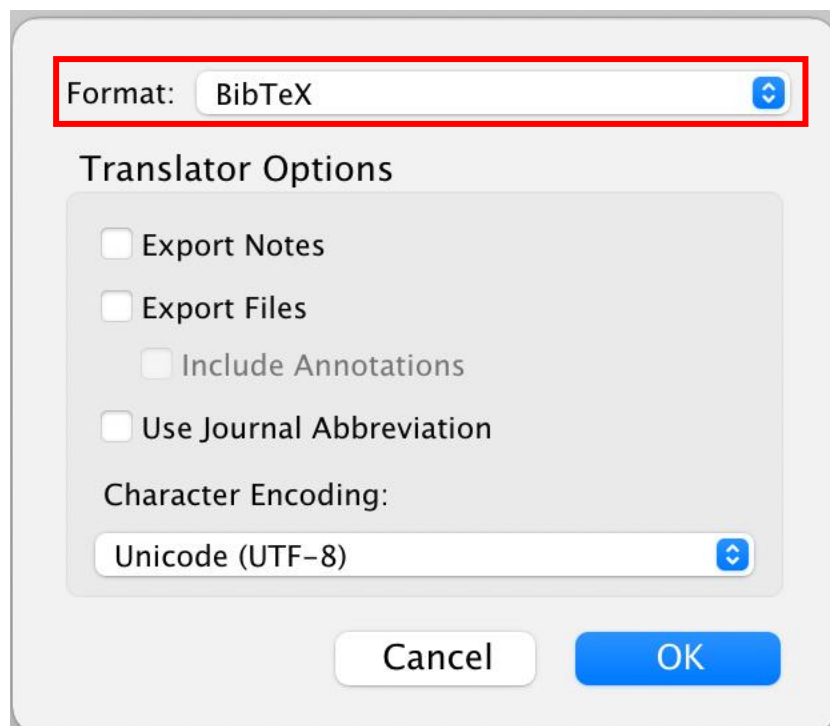
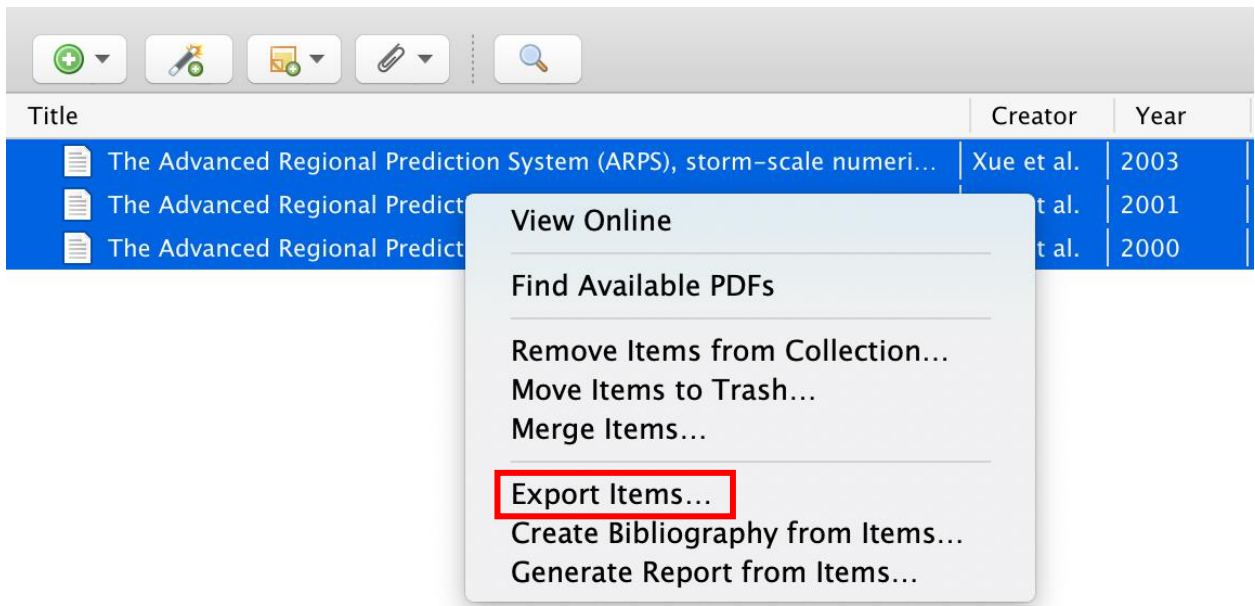
$$\partial C / \partial t = \oint [-\zeta \mathbf{v}_h + w(\nabla \times \mathbf{v})_h] \cdot \mathbf{n} d\mathbf{l}$$

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

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 interface with the search query "ou caps arps". The results list three articles. The first article, "[PDF] The Advanced Regional Prediction System (ARPS), storm-scale numerical weather prediction and data assimilation.", has a "Cite" button highlighted with a red box and a red arrow pointing to it. The second article, "The Advanced Regional Prediction System (ARPS)—A multi-scale nonhydrostatic atmospheric simulation and prediction model. Part I: Model dynamics and verification", also has a "Cite" button highlighted with a red box and a red arrow pointing to it. The third article, "The Wind Forecast Improvement Project (WFIP): A public/private partnership for improving short term weather forecasts and quantifying the benefits of utility ...", has a "Cite" button highlighted with a red box and a red arrow pointing to it. The left sidebar contains filters for "Any time", "Sort by relevance", "Any type", and "Create alert".

Google Scholar

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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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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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