
Formatting Instructions for the “Topological Data Analysis and Beyond” Workshop at NeurIPS 2020

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Abstract

1 This document provides a basic template for your paper and explains the submission
2 guidelines. Try to limit your abstract to a single paragraph, ideally between 4–6
3 sentences long.

4 1 Submission details

5 We require electronic submissions via OpenReview. Use the following site for your submission:

6 https://openreview.net/group?id=NeurIPS.cc/2020/Workshop/TDA_and_Beyond

7 Please read the instructions below carefully and follow them faithfully. If you have any questions,
8 reach out to workshop@topology.rocks.

9 2 Style file

10 Papers to be submitted to the ‘Topological Data Analysis and Beyond workshop’ must be prepared
11 according to the instructions presented here. Papers may only be up to four pages long, including
12 figures. Additional pages containing (i) *acknowledgements*, (ii) *funding statements*, (iii) *cited*
13 *references*, and/or (iv) *supplemental information* are allowed. Papers that exceed four pages of
14 content (not counting any appendices or supplements) will not be reviewed, or in any other way
15 considered for presentation at the workshop. The margins follow the NeurIPS 2020 template.

16 This L^AT_EX style file contains three optional arguments: `final`, which creates a camera-ready copy,
17 `preprint`, which creates a preprint for submission to, e.g., arXiv, and `nonatbib`, which will not
18 load the `natbib` package for you in case of package clash.

19 **Preprint option** If you wish to post a preprint of your work online, e.g. on arXiv, using the NeurIPS
20 style, please use the `preprint` option. This will create a non-anonymous version of your work with
21 the text “Preprint. Work in progress.” in the footer. This version may be distributed as you see fit.
22 Please **do not** use the `final` option, which should **only** be used for papers accepted to the workshop.

23 At submission time, please omit the `final` and `preprint` options. This will anonymise your
24 submission and add line numbers to aid review. Please *do not* refer to these line numbers in your
25 paper as they will be removed during generation of camera-ready copies.

26 The file `neurips_2020_tda.tex` may be used as a “shell” for writing your paper. All you have
27 to do is replace the author, title, abstract, and text of the paper with your own. The formatting
28 instructions contained in these style files are summarized in Sections 3, 4, and 5 below.

29 **3 General formatting instructions**

30 For the final version, authors' names are set in boldface, and each name is centred above the
31 corresponding address. The lead author's name is to be listed first (left-most), and the co-authors'
32 names (if different address) are set to follow. If there is only one co-author, list both author and co-
33 author side by side. Feel free to use footnote marks such as † in order to indicate equal contributions.

34 Please pay special attention to the instructions in Section 5 regarding figures, tables, acknowledge-
35 ments, and references.

36 **4 Headings**

37 All headings should be lower case (except for first word and proper nouns), flush left, and bold.

38 **5 Citations, figures, tables, and references**

39 These instructions apply to everyone.

40 **5.1 Citations within the text**

41 The `natbib` package will be loaded for you by default. Citations may be author/year or numeric, as
42 long as you maintain internal consistency. As to the format of the references themselves, any style is
43 acceptable as long as it is used consistently.

44 The documentation for `natbib` may be found at

45 <http://mirrors.ctan.org/macros/latex/contrib/natbib/natnotes.pdf>

46 Of note is the command `\citet`, which produces citations appropriate for use in inline text. For
47 example,

48 `\citet{hasselmo}` investigated\dotso

49 produces

50 Hasselmo, et al. (1995) investigated...

51 If you wish to load the `natbib` package with options, you may add the following before loading the
52 `neurips_2020_tda` package:

53 `\PassOptionsToPackage{options}{natbib}`

54 If `natbib` clashes with another package you load, you can add the optional argument `nonatbib`
55 when loading the style file:

56 `\usepackage[nonatbib]{neurips_2020_tda}`

57 As submission is double-blind, you should refer to your own published work in the third person. That
58 is, use "In the previous work of Jones et al. [4]," not "In our previous work [4]." If you cite your other
59 papers that are not widely available (e.g. a journal paper under review), use anonymous author names
60 in the citation, e.g. an author of the form "A. Anonymous."

61 **5.2 Footnotes**

62 Footnotes should be used sparingly. If you do require a footnote, indicate footnotes with a number¹
63 in the text. Note that footnotes are properly typeset *after* punctuation marks.²

¹Sample of the first footnote.

²As in this example.

Table 1: Sample table title

Part		
Name	Description	Size (μm)
Dendrite	Input terminal	~ 100
Axon	Output terminal	~ 10
Soma	Cell body	up to 10^6

5.3 Figures

All artwork must be neat, clean, and legible. Lines should be dark enough for purposes of reproduction. The figure number and caption always appear after the figure. Place one line space before the figure caption and one line space after the figure. The figure caption should be lower case (except for first word and proper nouns); figures are numbered consecutively. You may use colour figures. However, it is best for the figure captions and the paper body to be legible regardless of whether the paper is printed in black/white or in colour. Moreover, when designing figures, please ensure that your colours can be distinguished by the colour-blind. Visit

<https://colorbrewer2.org>

for more advice on choosing colours.

5.4 Tables

All tables must be centred, neat, clean and legible. The table number and title always appear before the table. See Table 1. The table title must be lower case (except for first word and proper nouns). Note that publication-quality tables *do not contain vertical rules*. We strongly suggest the use of the `booktabs` package, which allows for typesetting high-quality, professional tables:

<https://www.ctan.org/pkg/booktabs>

This package was used to typeset Table 1.

6 Final instructions

Do **not** change any aspects of the formatting parameters in the style files. In particular, do not modify the width or length of the rectangle the text should fit into, and do not change font sizes (except perhaps in the **References** section; see below). Please note that pages should be numbered.

Margins in L^AT_EX Most of the margin problems come from figures positioned by hand using `\special` or other commands. We suggest using the command `\includegraphics` from the `graphicx` package. Always specify the figure width as a multiple of the line width as in the example below:

```
\usepackage[pdftex]{graphicx} ...
\includegraphics[width=0.8\linewidth]{myfile.pdf}
```

See Section 4.4 in the graphics bundle documentation (<http://mirrors.ctan.org/macros/latex/required/graphics/grfguide.pdf>)

Hyphenation A number of width problems arise when L^AT_EX cannot properly hyphenate a line. Please give LaTeX hyphenation hints using the `\-` command when necessary.

Broader Impact

Authors may optionally include a statement of the broader impact of their work, including its ethical aspects and future societal consequences. Authors may discuss both positive and negative outcomes,

98 if any. For instance, authors might discuss (i) who may benefit from this research, (ii) who may be
99 put at disadvantage from this research, (iii) what are the consequences of failure of the system, and
100 (iv) whether the task/method leverages biases in the data. Use unnumbered first level headings for
101 this section, which should go at the end of the paper. **Note that this section does not count towards**
102 **the four pages of content that are allowed.**

103 **References**

104 References follow the acknowledgements. Use an unnumbered first-level heading for the references.
105 Any choice of citation style is acceptable as long as you are consistent. It is permissible to reduce the
106 font size to small (9 point) when listing the references. **Note that the Reference section does not**
107 **count towards the four pages of content that are allowed.**