Formatting Instructions For NeurIPS 2021

**Anonymous Author(s)** Affiliation Address

email

# Abstract

1 The abstract paragraph should be indented 1/2 inch (3 picas) on both the left- and

2 right-hand margins. Use 10 point type, with a vertical spacing (leading) of 11 points.

3 The word **Abstract** must be centered, bold, and in point size 12. Two line spaces

4 precede the abstract. The abstract must be limited to one paragraph.

# 5 1 Submission of papers to NeurIPS 2021

6 Please read the instructions below carefully and follow them faithfully.

7 **1.1 Style**

8 Papers to be submitted to NeurIPS 2021 must be prepared according to the instructions presented

9 here. Papers may only be up to **nine** pages long, including figures. Additional pages *containing only*

10 *acknowledgments and references* are allowed. Papers that exceed the page limit will not be reviewed,

11 or in any other way considered for presentation at the conference.

12 The margins in 2021 are the same as those in 2007, which allow for 15% more words in the paper

*∼*

13 compared to earlier years.

14 Authors are required to use the NeurIPS LATEX style files obtainable at the NeurIPS website as

15 indicated below. Please make sure you use the current files and not previous versions. Tweaking the

16 style files may be grounds for rejection.

## 17 1.2 Retrieval of style files

18 The style files for NeurIPS and other conference information are available on the World Wide Web at

19 <http://www.neurips.cc/>

20 The file neurips\_2021.pdf contains these instructions and illustrates the various formatting re-

21 quirements your NeurIPS paper must satisfy.

22 The only supported style file for NeurIPS 2021 is neurips\_2021.sty, rewritten for LATEX 2*ε*.

## 23 Previous style files for LATEX 2.09, Microsoft Word, and RTF are no longer supported!

24 The LATEX style file contains three optional arguments: final, which creates a camera-ready copy,

25 preprint, which creates a preprint for submission to, e.g., arXiv, and nonatbib, which will not

26 load the natbib package for you in case of package clash.

27 **Preprint option** If you wish to post a preprint of your work online, e.g., on arXiv, using the

28 NeurIPS style, please use the preprint option. This will create a nonanonymized version of your

29 work with the text “Preprint. Work in progress.” in the footer. This version may be distributed as

Submitted to 35th Conference on Neural Information Processing Systems (NeurIPS 2021). Do not distribute.

30 you see fit. Please **do not** use the final option, which should **only** be used for papers accepted to

31 NeurIPS.

32 At submission time, please omit the final and preprint options. This will anonymize your

33 submission and add line numbers to aid review. Please do *not* refer to these line numbers in your

34 paper as they will be removed during generation of camera-ready copies.

35 The file neurips\_2021.tex may be used as a “shell” for writing your paper. All you have to do is

36 replace the author, title, abstract, and text of the paper with your own.

37 The formatting instructions contained in these style files are summarized in Sections [2,](#_bookmark0) [3,](#_bookmark1) and [4](#_bookmark2)

38 below.

# 39 2 General formatting instructions

40 The text must be confined within a rectangle 5.5 inches (33 picas) wide and 9 inches (54 picas) long.

41 The left margin is 1.5 inch (9 picas). Use 10 point type with a vertical spacing (leading) of 11 points.

42 Times New Roman is the preferred typeface throughout, and will be selected for you by default.

43 Paragraphs are separated by 1/2 line space (5.5 points), with no indentation.

44 The paper title should be 17 point, initial caps/lower case, bold, centered between two horizontal

45 rules. The top rule should be 4 points thick and the bottom rule should be 1 point thick. Allow 1/4 inch

46 space above and below the title to rules. All pages should start at 1 inch (6 picas) from the top of the

47 page.

48 For the final version, authors’ names are set in boldface, and each name is centered above the

49 corresponding address. The lead author’s name is to be listed first (left-most), and the co-authors’

50 names (if different address) are set to follow. If there is only one co-author, list both author and

51 co-author side by side.

52 Please pay special attention to the instructions in Section [4](#_bookmark2) regarding figures, tables, acknowledgments,

53 and references.

# 54 3 Headings: first level

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

56 First-level headings should be in 12-point type.

## 57 3.1 Headings: second level

58 Second-level headings should be in 10-point type.

## 59 3.1.1 Headings: third level

60 Third-level headings should be in 10-point type.

61 **Paragraphs** There is also a \paragraph command available, which sets the heading in bold, flush

62 left, and inline with the text, with the heading followed by 1 em of space.

# 63 4 Citations, figures, tables, references

64 These instructions apply to everyone.

## 65 4.1 Citations within the text

66 The natbib package will be loaded for you by default. Citations may be author/year or numeric, as

67 long as you maintain internal consistency. As to the format of the references themselves, any style is

68 acceptable as long as it is used consistently.

69 The documentation for natbib may be found at

Figure 1: Sample figure caption.

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

71 Of note is the command \citet, which produces citations appropriate for use in inline text. For

72 example,

73 \citet{hasselmo} investigated\dots

74 produces

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

76 If you wish to load the natbib package with options, you may add the following before loading the

77 neurips\_2021 package:

78 \PassOptionsToPackage{options}{natbib}

79 If natbib clashes with another package you load, you can add the optional argument nonatbib

80 when loading the style file:

81 \usepackage[nonatbib]{neurips\_2021}

82 As submission is double blind, refer to your own published work in the third person. That is, use “In

83 the previous work of Jones et al. [4],” not “In our previous work [4].” If you cite your other papers

84 that are not widely available (e.g., a journal paper under review), use anonymous author names in the

85 citation, e.g., an author of the form “A. Anonymous.”

86 **4.2 Footnotes**

87 Footnotes should be used sparingly. If you do require a footnote, indicate footnotes with a number[1](#_bookmark3)

88 in the text. Place the footnotes at the bottom of the page on which they appear. Precede the footnote

89 with a horizontal rule of 2 inches (12 picas).

90 Note that footnotes are properly typeset *after* punctuation marks.[2](#_bookmark4)

91 **4.3 Figures**

92 All artwork must be neat, clean, and legible. Lines should be dark enough for purposes of reproduction.

93 The figure number and caption always appear after the figure. Place one line space before the figure

94 caption and one line space after the figure. The figure caption should be lower case (except for first

95 word and proper nouns); figures are numbered consecutively.

96 You may use color figures. However, it is best for the figure captions and the paper body to be legible

97 if the paper is printed in either black/white or in color.

1Sample of the first footnote.

2As in this example.

Table 1: Sample table title

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Name Description Size (*µ*m) Dendrite Input terminal *∼*100

Axon Output terminal *∼*10 6

Soma Cell body up to 10

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## 4.4 Tables

All tables must be centered, neat, clean and legible. The table number and title always appear before the table. See Table [1.](#_bookmark5)

Place one line space before the table title, one line space after the table title, and one line space after the table. The table title must be lower case (except for first word and proper nouns); tables are numbered consecutively.

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.](#_bookmark5)

# 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.

# Preparing PDF files

Please prepare submission files with paper size “US Letter,” and not, for example, “A4.”

Fonts were the main cause of problems in the past years. Your PDF file must only contain Type 1 or Embedded TrueType fonts. Here are a few instructions to achieve this.

* + You should directly generate PDF files using pdflatex.

You can check which fonts a PDF files uses. In Acrobat Reader, select the menu Files*>*Document Properties*>*Fonts and select Show All Fonts. You can also use the program pdffonts which comes with xpdf and is available out-of-the-box on most Linux machines.

*•*

The IEEE has recommendations for generating PDF files whose fonts are also ac- ceptable for NeurIPS. Please see [http://www.emfield.org/icuwb2010/downloads/](http://www.emfield.org/icuwb2010/downloads/IEEE-PDF-SpecV32.pdf) [IEEE-PDF-SpecV32.pdf](http://www.emfield.org/icuwb2010/downloads/IEEE-PDF-SpecV32.pdf)

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* + xfig "patterned" shapes are implemented with bitmap fonts. Use "solid" shapes instead.

The \bbold package almost always uses bitmap fonts. You should use the equivalent AMS Fonts:

*•*

\usepackage{amsfonts}

followed by, e.g., \mathbb{R}, \mathbb{N}, or \mathbb{C} for R, N or C. You can also use the following workaround for reals, natural and complex:

\newcommand{\RR}{I\!\!R} %real numbers

\newcommand{\Nat}{I\!\!N} %natural numbers

\newcommand{\CC}{I\!\!\!\!C} %complex numbers

Note that amsfonts is automatically loaded by the amssymb package.

If your file contains type 3 fonts or non embedded TrueType fonts, we will ask you to fix it.

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## 6.1 Margins in LATEX

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/](http://mirrors.ctan.org/macros/latex/required/graphics/grfguide.pdf) [latex/required/graphics/grfguide.pdf](http://mirrors.ctan.org/macros/latex/required/graphics/grfguide.pdf))

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

# References

References follow the acknowledgments. Use unnumbered first-level heading for the references. Any choice of citation style is acceptable as long as you are consistent. It is permissible to reduce the font size to small (9 point) when listing the references. Note that the Reference section does not count towards the page limit.

1. Alexander, J.A. & Mozer, M.C. (1995) Template-based algorithms for connectionist rule extraction. In

G. Tesauro, D.S. Touretzky and T.K. Leen (eds.), *Advances in Neural Information Processing Systems 7*, pp. 609–616. Cambridge, MA: MIT Press.

1. Bower, J.M. & Beeman, D. (1995) *The Book of GENESIS: Exploring Realistic Neural Models with the GEneral NEural SImulation System.* New York: TELOS/Springer–Verlag.
2. Hasselmo, M.E., Schnell, E. & Barkai, E. (1995) Dynamics of learning and recall at excitatory recurrent synapses and cholinergic modulation in rat hippocampal region CA3. *Journal of Neuroscience* **15**(7):5249-5262.

# Checklist

The checklist follows the references. Please read the checklist guidelines carefully for information on how to answer these questions. For each question, change the default **[TODO]** to [Yes] , [No] , or [N/A] . You are strongly encouraged to include a **justification to your answer**, either by referencing the appropriate section of your paper or providing a brief inline description. For example:

* + Did you include the license to the code and datasets? [Yes] See Section [2.](#_bookmark0)

Did you include the license to the code and datasets? [No] The code and the data are proprietary.

*•*

* + Did you include the license to the code and datasets? [N/A]

Please do not modify the questions and only use the provided macros for your answers. Note that the Checklist section does not count towards the page limit. In your paper, please delete this instructions block and only keep the Checklist section heading above along with the questions/answers below.

1. For all authors...
   1. Do the main claims made in the abstract and introduction accurately reflect the paper’s contributions and scope? **[TODO]**
   2. Did you describe the limitations of your work? **[TODO]**
   3. Did you discuss any potential negative societal impacts of your work? **[TODO]**
   4. Have you read the ethics review guidelines and ensured that your paper conforms to them? **[TODO]**
2. If you are including theoretical results...
   1. Did you state the full set of assumptions of all theoretical results? **[TODO]**
   2. Did you include complete proofs of all theoretical results? **[TODO]**

178 3. If you ran experiments...

179 (a) Did you include the code, data, and instructions needed to reproduce the main experi-

180 mental results (either in the supplemental material or as a URL)? **[TODO]**

181 (b) Did you specify all the training details (e.g., data splits, hyperparameters, how they

182 were chosen)? **[TODO]**

183 (c) Did you report error bars (e.g., with respect to the random seed after running experi-

184 ments multiple times)? **[TODO]**

185 (d) Did you include the total amount of compute and the type of resources used (e.g., type

186 of GPUs, internal cluster, or cloud provider)? **[TODO]**

187 4. If you are using existing assets (e.g., code, data, models) or curating/releasing new assets...

188 (a) If your work uses existing assets, did you cite the creators? **[TODO]**

189 (b) Did you mention the license of the assets? **[TODO]**

190 (c) Did you include any new assets either in the supplemental material or as a URL?

191 **[TODO]**

192 (d) Did you discuss whether and how consent was obtained from people whose data you’re

193 using/curating? **[TODO]**

194 (e) Did you discuss whether the data you are using/curating contains personally identifiable

195 information or offensive content? **[TODO]**

196 5. If you used crowdsourcing or conducted research with human subjects...

197 (a) Did you include the full text of instructions given to participants and screenshots, if

198 applicable? **[TODO]**

199 (b) Did you describe any potential participant risks, with links to Institutional Review

200 Board (IRB) approvals, if applicable? **[TODO]**

201 (c) Did you include the estimated hourly wage paid to participants and the total amount

202 spent on participant compensation? **[TODO]**

203 **A Appendix**

204 Optionally include extra information (complete proofs, additional experiments and plots) in the

205 appendix. This section will often be part of the supplemental material.