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# Formatting Instructions For WANT@NeurIPS 2023

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Address

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## Abstract

1 The abstract paragraph should be indented  $\frac{1}{2}$  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 WANT@NeurIPS 2023

6 Formatting instructions and style files are modified versions of NeurIPS 2023 templates. Please read  
7 the instructions below carefully and follow them faithfully.

8 Papers to the **Workshop on Advancing Neural Network Training (WANT): Computational**  
9 **Efficiency, Scalability, and Resource Optimization** should be submitted through OpenReview.

### 10 1.1 Style

11 Papers to be submitted to WANT@NeurIPS 2023 must be prepared according to the instructions  
12 presented here. Papers may only be up to **six** pages long, including figures. Additional pages  
13 *containing only acknowledgments, references, and appendix* are allowed.

14 Authors are required to use the WANT@NeurIPS L<sup>A</sup>T<sub>E</sub>X style files obtainable at the WANT@NeurIPS  
15 website as indicated below.

### 16 1.2 Retrieval of style files

17 The style files for WANT@NeurIPS and other workshop information are available on the website at

18 <https://want-ai-hpc.github.io>

19 The file `want_neurips_2023.pdf` contains these instructions and illustrates the various formatting  
20 requirements your WANT@NeurIPS paper must satisfy.

21 The only supported style file for WANT@NeurIPS 2023 is `want_neurips_2023.sty`, rewritten for  
22 L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub>.

23 The L<sup>A</sup>T<sub>E</sub>X style file contains three optional arguments: `final`, which creates a camera-ready copy,  
24 `preprint`, which creates a preprint for submission to, e.g., arXiv, and `nonatbib`, which will not  
25 load the `natbib` package for you in case of package clash.

26 **Preprint option** If you wish to post a preprint of your work online, e.g., on arXiv, using the  
27 WANT@NeurIPS style, please use the `preprint` option. This will create a nonanonymized version  
28 of your work with the text “Preprint. Work in progress.” in the footer. This version may be distributed

29 as you see fit, as long as you do not say which conference it was submitted to. Please **do not** use the  
30 `final` option, which should **only** be used for papers accepted to WANT@NeurIPS.

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

34 The file `want_neurips_2023.tex` may be used as a “shell” for writing your paper. All you have to  
35 do is replace the author, title, abstract, and text of the paper with your own.

36 The formatting instructions contained in these style files are summarized in Sections 2, 3, and 4  
37 below.

## 38 **2 General formatting instructions**

39 The text must be confined within a rectangle 5.5 inches (33 picas) wide and 9 inches (54 picas) long.  
40 The left margin is 1.5 inch (9 picas). Use 10 point type with a vertical spacing (leading) of 11 points.  
41 Times New Roman is the preferred typeface throughout, and will be selected for you by default.  
42 Paragraphs are separated by  $\frac{1}{2}$  line space (5.5 points), with no indentation.

43 The paper title should be 17 point, initial caps/lower case, bold, centered between two horizontal  
44 rules. The top rule should be 4 points thick and the bottom rule should be 1 point thick. Allow  $\frac{1}{4}$  inch  
45 space above and below the title to rules. All pages should start at 1 inch (6 picas) from the top of the  
46 page.

47 For the final version, authors’ names are set in boldface, and each name is centered above the  
48 corresponding address. The lead author’s name is to be listed first (left-most), and the co-authors’  
49 names (if different address) are set to follow. If there is only one co-author, list both author and  
50 co-author side by side.

51 Please pay special attention to the instructions in Section 4 regarding figures, tables, acknowledgments,  
52 and references.

## 53 **3 Headings: first level**

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

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

### 56 **3.1 Headings: second level**

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

#### 58 **3.1.1 Headings: third level**

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

60 **Paragraphs** There is also a `\paragraph` command available, which sets the heading in bold, flush  
61 left, and inline with the text, with the heading followed by 1 em of space.

## 62 **4 Citations, figures, tables, references**

63 These instructions apply to everyone.

### 64 **4.1 Citations within the text**

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

68 The documentation for `natbib` may be found at



Figure 1: Sample figure caption.

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

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

72 `\citet{hasselmo}` investigated\dots

73 produces

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

75 If you wish to load the `natbib` package with options, you may add the following before loading the  
 76 `want_neurips_2023` package:

77 `\PassOptionsToPackage{options}{natbib}`

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

80 `\usepackage[nonatbib]{want_neurips_2023}`

81 As submission is double blind, refer to your own published work in the third person. That is, use “In  
 82 the previous work of Jones et al. [4],” not “In our previous work [4].” If you cite your other papers  
 83 that are not widely available (e.g., a journal paper under review), use anonymous author names in the  
 84 citation, e.g., an author of the form “A. Anonymous” and include a copy of the anonymized paper in  
 85 the supplementary material.

## 86 4.2 Footnotes

87 Footnotes should be used sparingly. If you do require a footnote, indicate footnotes with a number<sup>1</sup>  
 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.<sup>2</sup>

## 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.

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<sup>1</sup>Sample of the first footnote.

<sup>2</sup>As in this example.

Table 1: Sample table title

Part		
Name	Description	Size ( $\mu\text{m}$ )
Dendrite	Input terminal	$\sim 100$
Axon	Output terminal	$\sim 10$
Soma	Cell body	up to $10^6$

## 98 4.4 Tables

99 All tables must be centered, neat, clean and legible. The table number and title always appear before  
100 the table. See Table 1.

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

104 Note that publication-quality tables *do not contain vertical rules*. We strongly suggest the use of the  
105 booktabs package, which allows for typesetting high-quality, professional tables:

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

107 This package was used to typeset Table 1.

## 108 4.5 Math

109 Note that display math in bare TeX commands will not create correct line numbers for sub-  
110 mission. Please use LaTeX (or AMSTeX) commands for unnumbered display math. (You  
111 really shouldn't be using \$\$ anyway; see [https://tex.stackexchange.com/questions/](https://tex.stackexchange.com/questions/503/why-is-preferable-to)  
112 [503/why-is-preferable-to](https://tex.stackexchange.com/questions/503/why-is-preferable-to) and [https://tex.stackexchange.com/questions/40492/](https://tex.stackexchange.com/questions/40492/what-are-the-differences-between-align-equation-and-displaymath)  
113 [what-are-the-differences-between-align-equation-and-displaymath](https://tex.stackexchange.com/questions/40492/what-are-the-differences-between-align-equation-and-displaymath) for more infor-  
114 mation.)

## 115 4.6 Final instructions

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

## 119 5 Preparing PDF files

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

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

- 123 • You should directly generate PDF files using `pdflatex`.
- 124 • You can check which fonts a PDF files uses. In Acrobat Reader, select the menu  
125 Files>Document Properties>Fonts and select Show All Fonts. You can also use the program  
126 `pdf fonts` which comes with `xpdf` and is available out-of-the-box on most Linux machines.
- 127 • `xfig` "patterned" shapes are implemented with bitmap fonts. Use "solid" shapes instead.
- 128 • The `\bbold` package almost always uses bitmap fonts. You should use the equivalent AMS  
129 Fonts:

130 `\usepackage{amsfonts}`

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

```

133 \newcommand{\RR}{\mathbb{R}} %real numbers
134 \newcommand{\Nat}{\mathbb{N}} %natural numbers
135 \newcommand{\CC}{\mathbb{C}} %complex numbers

```

136 Note that `amsfonts` is automatically loaded by the `amssymb` package.

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

## 138 5.1 Margins in L<sup>A</sup>T<sub>E</sub>X

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

```

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

```

144 See Section 4.4 in the graphics bundle documentation ([http://mirrors.ctan.org/macros/](http://mirrors.ctan.org/macros/latex/required/graphics/grfguide.pdf)  
145 [latex/required/graphics/grfguide.pdf](http://mirrors.ctan.org/macros/latex/required/graphics/grfguide.pdf))

146 A number of width problems arise when L<sup>A</sup>T<sub>E</sub>X cannot properly hyphenate a line. Please give LaTeX  
147 hyphenation hints using the `\-` command when necessary.

## 148 6 Supplementary Material

149 Authors may optionally include extra information (complete proofs, additional experiments and plots)  
150 to the appendix section (after References).

## 151 References

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

156 [1] Alexander, J.A. & Mozer, M.C. (1995) Template-based algorithms for connectionist rule extraction. In  
157 G. Tesauro, D.S. Touretzky and T.K. Leen (eds.), *Advances in Neural Information Processing Systems 7*, pp.  
158 609–616. Cambridge, MA: MIT Press.

159 [2] Bower, J.M. & Beeman, D. (1995) *The Book of GENESIS: Exploring Realistic Neural Models with the*  
160 *GENeral NEural Simulation System*. New York: TELOS/Springer-Verlag.

161 [3] Hasselmo, M.E., Schnell, E. & Barkai, E. (1995) Dynamics of learning and recall at excitatory recurrent  
162 synapses and cholinergic modulation in rat hippocampal region CA3. *Journal of Neuroscience* **15**(7):5249-5262.