

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 you
30 see fit, as long as you do not say which conference it was submitted to. Please **do not** use the `final`
31 option, which should **only** be used for papers accepted to 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_2024.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, 3, and 4
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 $\frac{1}{2}$ 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 $\frac{1}{4}$ 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 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

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_2024` 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_2024}`

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” and include a copy of the anonymized paper in
86 the supplementary material.

87 **4.2 Footnotes**

88 Footnotes should be used sparingly. If you do require a footnote, indicate footnotes with a number¹
89 in the text. Place the footnotes at the bottom of the page on which they appear. Precede the footnote
90 with a horizontal rule of 2 inches (12 picas).

91 Note that footnotes are properly typeset *after* punctuation marks.²

92 **4.3 Figures**

93 All artwork must be neat, clean, and legible. Lines should be dark enough for purposes of reproduction.
94 The figure number and caption always appear after the figure. Place one line space before the figure
95 caption and one line space after the figure. The figure caption should be lower case (except for first
96 word and proper nouns); figures are numbered consecutively.

97 You may use color figures. However, it is best for the figure captions and the paper body to be legible
98 if the paper is printed in either black/white or in color.

99 **4.4 Tables**

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

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

¹Sample of the first footnote.

²As in this example.

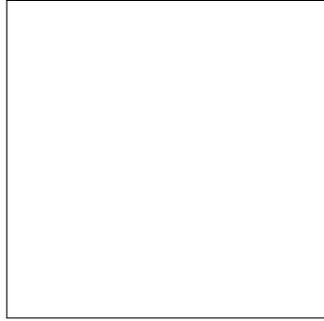


Figure 1: Sample figure caption.

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

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

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

108 This package was used to typeset Table 1.

109 4.5 Math

110 Note that display math in bare TeX commands will not create correct line numbers for sub-
111 mission. Please use LaTeX (or AMSTeX) commands for unnumbered display math. (You
112 really shouldn't be using $\$$ anyway; see <https://tex.stackexchange.com/questions/503/why-is-preferable-to> and <https://tex.stackexchange.com/questions/40492/what-are-the-differences-between-align-equation-and-displaymath> for more infor-
114 mation.)
115

116 4.6 Final instructions

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

120 5 Preparing PDF files

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

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

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

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

```
131 \usepackage{amsfonts}
```

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

```
134 \newcommand{\RR}{I\!\!R} %real numbers  
135 \newcommand{\Nat}{I\!\!N} %natural numbers  
136 \newcommand{\CC}{I\!\!C} %complex numbers
```

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

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

139 5.1 Margins in L^AT_EX

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

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

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

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

149 References

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

154 [1] Alexander, J.A. & Mozer, M.C. (1995) Template-based algorithms for connectionist rule extraction. In
155 G. Tesauro, D.S. Touretzky and T.K. Leen (eds.), *Advances in Neural Information Processing Systems 7*, pp.
156 609–616. Cambridge, MA: MIT Press.

157 [2] Bower, J.M. & Beeman, D. (1995) *The Book of GENESIS: Exploring Realistic Neural Models with the*
158 *GGeneral NEural Simulation System*. New York: TELOS/Springer-Verlag.

159 [3] Hasselmo, M.E., Schnell, E. & Barkai, E. (1995) Dynamics of learning and recall at excitatory recurrent
160 synapses and cholinergic modulation in rat hippocampal region CA3. *Journal of Neuroscience* **15**(7):5249-5262.

161 A Appendix / supplemental material

162 Optionally include supplemental material (complete proofs, additional experiments and plots) in
163 appendix. All such materials **SHOULD be included in the main submission.**