Transforms for constrained parameters in Hamiltonian Monte Carlo

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Abstract

The Abstract paragraph should be indented 0.25 inch (1.5 picas) on both left and right-hand margins. Use 10 point type, with a vertical spacing of 11 points. The **Abstract** heading must be centered, bold, and in point size 12. Two line spaces precede the Abstract. The Abstract must be limited to one paragraph.

1 GENERAL FORMATTING INSTRUCTIONS

The camera-ready versions of the accepted papers are 8 pages, plus any additional pages needed for references.

Papers are in 2 columns with the overall line width of 6.75 inches (41 picas). Each column is 3.25 inches wide (19.5 picas). The space between the columns is .25 inches wide (1.5 picas). The left margin is 0.88 inches (5.28 picas). Use 10 point type with a vertical spacing of 11 points. Please use US Letter size paper instead of A4.

Paper title is 16 point, caps/lc, bold, centered between 2 horizontal rules. Top rule is 4 points thick and bottom rule is 1 point thick. Allow 1/4 inch space above and below title to rules.

Author descriptions are center-justified, initial caps. The lead author is to be listed first (left-most), and the Co-authors are set to follow. If up to three authors, use a single row of author descriptions, each one center-justified, and all set side by side; with more authors or unusually long names or institutions, use more rows.

Use one-half line space between paragraphs, with no indent.

Preliminary work. Under review by AISTATS 2021. Do not distribute.

2 FIRST LEVEL HEADINGS

First level headings are all caps, flush left, bold, and in point size 12. Use one line space before the first level heading and one-half line space after the first level heading.

2.1 Second Level Heading

Second level headings are initial caps, flush left, bold, and in point size 10. Use one line space before the second level heading and one-half line space after the second level heading.

2.1.1 Third Level Heading

Third level headings are flush left, initial caps, bold, and in point size 10. Use one line space before the third level heading and one-half line space after the third level heading.

Fourth Level Heading Fourth level headings must be flush left, initial caps, bold, and Roman type. Use one line space before the fourth level heading, and place the section text immediately after the heading with no line break, but an 11 point horizontal space.

2.2 Citations, Figure, References

2.2.1 Citations in Text

Citations within the text should include the author's last name and year, e.g., (Cheesman, 1985). Be sure that the sentence reads correctly if the citation is deleted: e.g., instead of "As described by (Cheesman, 1985), we first frobulate the widgets," write "As described by Cheesman (1985), we first frobulate the widgets."

The references listed at the end of the paper can follow any style as long as it is used consistently.

2.2.2 Footnotes

Indicate footnotes with a number¹ in the text. Use 8 point type for footnotes. Place the footnotes at the bottom of the column in which their markers appear, continuing to the next column if required. Precede the footnote section of a column with a 0.5 point horizontal rule 1 inch (6 picas) long.²

2.2.3 Figures

All artwork must be centered, neat, clean, and legible. All lines should be very dark for purposes of reproduction, and art work should not be hand-drawn. Figures may appear at the top of a column, at the top of a page spanning multiple columns, inline within a column, or with text wrapped around them, but the figure number and caption always appear immediately below the figure. Leave 2 line spaces between the figure and the caption. The figure caption is initial caps and each figure should be numbered consecutively.

Make sure that the figure caption does not get separated from the figure. Leave extra white space at the bottom of the page rather than splitting the figure and figure caption.

This figure intentionally left non-blank

Figure 1: Sample Figure Caption

2.2.4 Tables

All tables must be centered, neat, clean, and legible. Do not use hand-drawn tables. Table number and title always appear above the table. See Table 1.

Use 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 initial caps and each table numbered consecutively.

Table 1: Sample Table Title

PART	DESCRIPTION
Dendrite Axon Soma	Input terminal Output terminal Cell body (contains cell nucleus)

¹Sample of the first footnote.

3 SUPPLEMENTARY MATERIAL

If you need to include additional appendices during submission, you can include them in the supplementary material file. You can submit a single file of additional supplementary material which may be either a pdf file (such as proof details) or a zip file for other formats/more files (such as code or videos). Note that reviewers are under no obligation to examine your supplementary material. If you have only one supplementary pdf file, please upload it as is; otherwise gather everything to the single zip file.

You must use aistats2021.sty as a style file for your supplementary pdf file and follow the same formatting instructions as in the main paper. The only difference is that it must be in a *single-column* format. You can use supplement.tex in our starter pack as a starting point. Alternatively, you may append the supplementary content to the main paper and split the final PDF into two separate files.

4 SUBMISSION INSTRUCTIONS

To submit your paper to AISTATS 2021, please follow these instructions.

- Download aistats2021.sty, fancyhdr.sty, and sample_paper.tex provided in our starter pack. Please, do not modify the style files as this might result in a formatting violation.
- 2. Use sample_paper.tex as a starting point.
- 3. Begin your document with

\documentclass[twoside]{article} \usepackage{aistats2021}

The twoside option for the class article allows the package fancyhdr.sty to include headings for even and odd numbered pages.

- 4. When you are ready to submit the manuscript, compile the latex file to obtain the pdf file.
- 5. Check that the content of your submission, excluding references, is limited to 8 pages. The number of pages containing references alone is not limited.
- 6. Upload the PDF file along with other supplementary material files to the CMT website.

4.1 Camera-ready Papers

If your papers are accepted, you will need to submit the camera-ready version. Please make sure that you follow these instructions:

²Sample of the second footnote.

1. Change the beginning of your document to

\documentclass[twoside]{article} \usepackage[accepted]{aistats2021}

option accepted for the package aistats2021.sty will write a copyright notice at the end of the first column of the first page. This option will also print headings for the paper. For the even pages, the title of the paper will be used as heading and for odd pages the author names will be used as heading. If the title of the paper is too long or the number of authors is too large, the style will print a warning message as heading. If this happens additional commands can be used to place as headings shorter versions of the title and the author names. This is explained in the next point.

2. If you get warning messages as described above, then immediately after \begin{document}, write

\runningtitle{Provide here an alternative shorter version of the title of your paper}

\runningauthor{Provide here the surnames of the authors of your paper, all separated by commas}

Note that the text that appears as argument in \runningtitle will be printed as a heading in the even pages. The text that appears as argument in \runningauthor will be printed as a heading in the odd pages. If even the author surnames do not fit, it is acceptable to give a subset of author names followed by "et al."

- 3. The camera-ready versions of the accepted papers are 8 pages, plus any additional pages needed for references.
- 4. If you need to include additional appendices, you can include them in the supplementary material file.
- 5. Please, do not change the layout given by the above instructions and by the style file.

Acknowledgements

All acknowledgments go at the end of the paper, including thanks to reviewers who gave useful comments, to colleagues who contributed to the ideas, and to funding agencies and corporate sponsors that provided financial support. To preserve the anonymity, please include acknowledgments *only* in the camera-ready papers.

References

References follow the acknowledgements. Use an unnumbered third level heading for the references section. Please use the same font size for references as for the body of the paper—remember that references do not count against your page length total.

References

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