

**A L^AT_EX Template for Transportation Research Board Annual Meeting
Papers**

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Word Count: 887 words + 1 table(s) \times 250 = 1137 words

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1 ABSTRACT

2 The Transportation Research Board (TRB) has unique requirements for manuscripts submitted
3 for review. These can make \LaTeX workflows fiddly, and no existing style perfectly mirrors the
4 guidelines. This template offers a pragmatic starting point for authors using \LaTeX (and related
5 literate programming tools) while matching TRB conventions.

6

7 *Keywords:* Keyword1, Keyword2

1 INTRODUCTION

2 The Transportation Research Board (*1*) outlines specific requirements for submissions. Initial
3 submissions are PDFs, while accepted papers for the *Transportation Research Record* may require
4 Microsoft Office formats. Manuscripts must be line-numbered; captions are bold with TRB-specific
5 punctuation; in-text citations are numbered and the reference list is ordered numerically. See the
6 author information online at <https://trb.secure-platform.com/a/page/TRBPaperReview>.

7 We assume basic familiarity with \LaTeX and `bibtex`. As literate programming becomes
8 more common, the template may evolve to support additional workflows.

9 History

10 David R. Pritchard released the original template in 2009 and updated it in 2011. Gregory
11 Macfarlane extended it in 2012 (Sweave integration and auto counts). C. Ross Wang automated
12 total word count calculation and improved formatting in 2015, added GitHub releases in 2016, and
13 provided \TeX -only variants in 2017 (https://github.com/chiehrosswang/TRB_LaTeX_tex) and an
14 RNW version (https://github.com/chiehrosswang/TRB_LaTeX_rnw). The 2019 and 2025 updates
15 focused on the \TeX -only version: the 2019 update improved Overleaf compatibility, while the 2025
16 update enhanced word-counting and authorship blocks.

17 FEATURES

18 This template targets quick and TRB-compliant manuscript assembly (2).

19 Title Page

20 The class provides a custom `\maketitle` that prints authors (via `\TRBauthor`), a word count
21 (with tables counted as 250 words each by default), and the submission date. Word counting uses
22 `texcount` via shell escape; compile with `--shell-escape` (see the BUILD section).

23 Page Layout

24 Margins are 1 in. The running header shows authors (set with `\AuthorHeaders`) at the left and
25 the page number at the right. Headings and spacing follow TRB conventions.

26 Line Numbers

27 Line numbering uses the `lineno` package and resets each page. Blank lines are not numbered. The
28 numbered class option enables line numbers.

29 MORE FEATURES

30 Captions

31 Figure 1 shows a Gumbel distribution as an example. Figure captions use sentence case. Table
32 captions use Title Case and function as a short title. Table 1 summarizes the template history. Both
33 Figure and Table captions are bold.

34 Bibliography

35 Use `trb.bst`. The command `\citep{}` prints authors with the reference number; `\cite{}` prints
36 only the number. References appear in numerical order.

37 Examples include Bierlaire, Bierlaire, Garrow et al., Koppelman and Garrow (3–6) and
38 grouped numeric citations (*1*, 3).

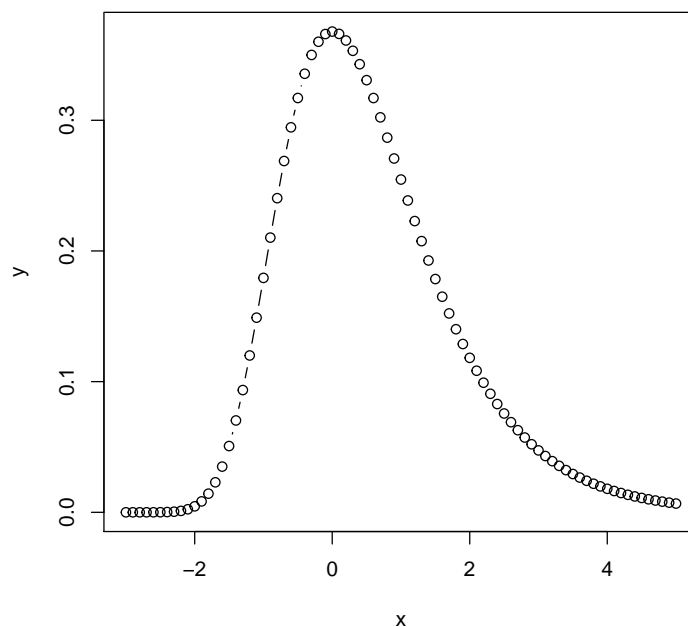


FIGURE 1 Example figure illustrating the caption style and counting on the title page.

TABLE 1 A History of this Template

Version	Date	Author	Contributions
1.0	Sep 2009	Pritchard	Initial work
1.1	Mar 2011	Pritchard	Caption fixes
2.0	Mar 2012	Macfarlane	Automation, documentation
2.1	Jul 2015	Wang	More automation and formatting
2.1.1	Jan 2016	Wang	Minor modifications; GitHub
2.1.1 Lite	Jun 2017	Wang	T _E X-only template
3.1	Jun 2017	Wang	Added <code>trbunofficial.cls</code>
3.1 Lite	Jun 2017	Wang	Added <code>trbunofficial.cls</code>
4.0 Lite	Jul 2019	Wang	Word-count updates for Overleaf
5.0 Lite	Aug 2025	Wang	Word-count improvements*

* Total counts include: Title, front matter, body texts, headers, captions, references. Total word counts do not include text in tables (each table is automatically counted as 250 words).

1 Equations

2 Equations are left aligned with no extra indentation. Below is the Intelligent Driver Model (from
 3 https://en.wikipedia.org/wiki/Intelligent_driver_model).

$$1 \quad \dot{x}_\alpha = \frac{dx_\alpha}{dt} = v_\alpha, \quad (1)$$

$$2 \quad \dot{v}_\alpha = \frac{dv_\alpha}{dt} = a \left(1 - \left(\frac{v_\alpha}{v_0} \right)^\delta - \left(\frac{s^*(v_\alpha, \Delta v_\alpha)}{s_\alpha} \right)^2 \right), \quad (2)$$

$$3 \quad s^*(v_\alpha, \Delta v_\alpha) = s_0 + v_\alpha T + \frac{v_\alpha \Delta v_\alpha}{2\sqrt{ab}}. \quad (3)$$

4 **Referencing Sections by Custom Names**

5 Because this template does not use section numbering, referencing sections directly can be difficult.
6 To address this, you can create hyperlinks to labeled sections with your own display text using the
7 `\customref` command: `\customref{Displayed Text}{label}`.

8 For example, if you have defined `\label{sec:intro}` for the Introduction section, you can
9 write `\customref{INTRODUCTION section}{sec:intro}` to produce a hyperlink that appears
10 as INTRODUCTION section.

11 **CONCLUSION AND BUILD**

12 To build with automatic word counting:

13 `latexmk trb_template.tex -pdf -pvc -shell-escape`

14 The `--shell-escape` flag lets `texcount` run for accurate totals.

15 Perl is required for `texcount` (e.g., ActivePerl: <http://www.activestate.com/activeperl/download>).
16 nloads).

17 **ACKNOWLEDGMENTS**

18 We thank Aleksandar Trifunovic (<https://github.com/akstrfn>) for putting together the initial
19 `trbunofficial` class that advanced this work.

20 **AUTHOR CONTRIBUTIONS**

21 The authors confirm contribution to the paper as follows: study conception and design: X. Author,
22 Y. Author; data collection: Y. Author; analysis and interpretation of results: X. Author, Y. Author,
23 Z. Author; draft manuscript preparation: Y. Author, Z. Author. All authors reviewed the results
24 and approved the final version of the manuscript.

25 **DECLARATION OF CONFLICTING INTERESTS**

26 X. Author is a member of Transportation Research Record's Editorial Board. All other authors
27 declare no potential conflicts of interest with respect to the research, authorship, and publication of
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