

# A L<sup>A</sup>T<sub>E</sub>X Template for Transportation Research Board Annual Meeting Papers

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Word Count: 928 words + 1 table(s)  $\times$  250 = 1178 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  $\text{\LaTeX}$  workflows fiddly, and no existing style perfectly mirrors the  
4 guidelines. This template offers a pragmatic starting point for authors using  $\text{\LaTeX}$  (and related  
5 literate programming tools) while matching TRB conventions.

6

7 *Keywords:* Keyword1, Keyword2

## 1 INTRODUCTION

2 The Transportation Research Board (TRB) currently requires submissions of full papers to be  
3 considered for presentation at the TRB Annual Meeting (*I*). The Instructions For Authors website  
4 (<https://trb.secure-platform.com/a/page/TRBPaperReview>) outlines specific requirements for  
5 submissions. Initial submissions are PDFs, while accepted papers for the *Transportation Research*  
6 *Record* may require Microsoft Office formats. Manuscripts must be line-numbered; captions are  
7 bold with TRB-specific punctuation; in-text citations are numbered and the reference list is ordered  
8 numerically. See the author information online at <https://trb.secure-platform.com/a/page/TRBPaperReview>.  
9

10 We assume basic familiarity with  $\text{\LaTeX}$  and `bibtex`. As literate programming becomes  
11 more common, the template may evolve to support additional workflows.

## 12 History

13 David R. Pritchard (2) released the original template in 2009 and updated it in 2011. Gregory  
14 S. Macfarlane (3) extended it in 2012 (Sweave integration and auto counts). C. Ross Wang (4)  
15 automated total word count calculation and improved formatting in 2015, added GitHub releases  
16 in 2016, and provided  $\text{\TeX}$ -only variants in 2017 ([https://github.com/chiehrosswang/TRB\\_LaTeX](https://github.com/chiehrosswang/TRB_LaTeX)  
17 `_tex`) and an RNW version ([https://github.com/chiehrosswang/TRB\\_LaTeX\\_rnw](https://github.com/chiehrosswang/TRB_LaTeX_rnw)). The 2019 and  
18 2025 updates focused on the  $\text{\TeX}$ -only version: the 2019 update improved Overleaf compatibility,  
19 while the 2025 update enhanced word-counting and authorship blocks.

## 20 FEATURES

21 This template targets quick and TRB-compliant manuscript assembly (*I*).

### 22 Title Page

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

### 26 Page Layout

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

### 29 Line Numbers

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

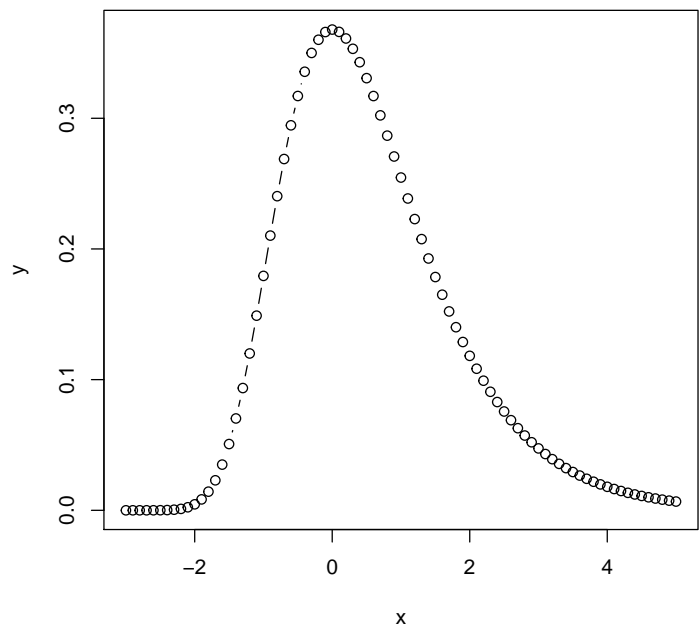
## 32 MORE FEATURES

### 33 Captions

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

### 37 Bibliography

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



**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 <sub>E</sub> 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        Examples include Bierlaire, Bierlaire, Garrow et al., Koppelman and Garrow (5–8) and

2    grouped numeric citations (5, 7, 8).

## 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](https://en.wikipedia.org/wiki/Intelligent_driver_model)).

$$4 \quad \dot{x}_\alpha = \frac{dx_\alpha}{dt} = v_\alpha, \quad (1)$$

$$5 \quad \dot{v}_\alpha = \frac{dv_\alpha}{dt} = a \left( 1 - \left( \frac{v_\alpha}{v_0} \right)^\delta - \left( \frac{s^*(v_\alpha, \Delta v_\alpha)}{s_\alpha} \right)^2 \right), \quad (2)$$

$$6 \quad s^*(v_\alpha, \Delta v_\alpha) = s_0 + v_\alpha T + \frac{v_\alpha \Delta v_\alpha}{2\sqrt{ab}}. \quad (3)$$

## 7 Referencing Sections by Custom Names

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

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

## 14 CONCLUSION AND BUILD

15 To build with automatic word counting:

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

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

18 Perl is required for `texcount` (e.g., ActivePerl: <http://www.activestate.com/activeperl/downloads>).  
19

## 20 ACKNOWLEDGMENTS

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

## 23 AUTHOR CONTRIBUTIONS

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

## 28 DECLARATION OF CONFLICTING INTERESTS

29 X. Author is a member of Transportation Research Record's Editorial Board. All other authors  
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