

# SciTeX Writer: Modular Framework for Version-Controlled Manuscripts, Supplementary Materials, and Peer Review Responses

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8 Abstract

10 Scientific manuscript preparation requires careful management of doc-  
11 ument structure, version control, and reproducible compilation across di-  
12 verse computing environments. We present SciTeX Writer, a comprehensive  
13 LaTeX-based framework designed to streamline the academic writing work-  
14 flow while maintaining consistency and reproducibility. The system employs  
15 container-based compilation to ensure identical output regardless of the host  
16 environment, eliminating the common "it works on my machine" problem.  
17 Through a modular architecture that separates content from formatting, Sci-  
18 TeX Writer enables researchers to focus on scientific writing while the system  
19 handles document structure, figure format conversion, and version tracking.  
20 The framework supports parallel development of main manuscripts, supple-  
21 mentary materials, and revision documents, all sharing common metadata  
22 from a single source of truth. Automatic handling of diverse image formats  
23 and systematic organization of tables and figures reduces technical overhead.  
24 This self-documenting template demonstrates its own capabilities, providing  
25 researchers with a production-ready system for manuscript preparation that  
26 scales from initial draft to final submission.

<sup>27</sup> *Keywords:* keyword one, keyword two, keyword three, keyword four,  
<sup>28</sup> keyword five

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<sup>29</sup> ~ 2 figures, 0 tables, 157 words for abstract, and 2626 words for main  
<sup>30</sup> text

<sup>31</sup> **1. Introduction**

<sup>32</sup> The preparation of scientific manuscripts involves numerous technical  
<sup>33</sup> challenges that extend beyond the intellectual task of communicating re-  
<sup>34</sup> search findings [1]. Researchers must navigate complex typesetting systems,  
<sup>35</sup> manage multiple document versions, coordinate figures and tables across for-  
<sup>36</sup> mats, and ensure reproducible compilation environments [2]. These technical  
<sup>37</sup> burdens can distract from the primary goal of clear scientific communication  
<sup>38</sup> and often lead to inconsistencies, formatting errors, and wasted time trou-  
<sup>39</sup> bleshooting environment-specific compilation issues.

<sup>40</sup> Traditional approaches to manuscript preparation typically rely on local  
<sup>41</sup> LaTeX installations, where the specific versions of packages and compilation  
<sup>42</sup> tools can vary significantly across different machines and over time [3]. This  
<sup>43</sup> variability creates reproducibility challenges, particularly in collaborative en-  
<sup>44</sup> vironments where multiple authors work on different systems [4]. Further-  
<sup>45</sup> more, the proliferation of image formats and the need to convert between  
<sup>46</sup> them for different submission requirements adds another layer of complex-  
<sup>47</sup> ity. Researchers often resort to ad-hoc scripts or manual processes to handle  
<sup>48</sup> these conversions, leading to potential errors and inconsistent results.

<sup>49</sup> Existing solutions have addressed some aspects of this problem [5]. Over-  
<sup>50</sup> leaf and similar cloud-based platforms provide consistent compilation envi-  
<sup>51</sup> ronments but require continuous internet connectivity and may not suit all  
<sup>52</sup> research workflows. Version control systems like Git effectively track changes  
<sup>53</sup> but require researchers to understand both LaTeX and version control simul-  
<sup>54</sup> taneously. Template repositories exist for various journals, but they typically  
<sup>55</sup> focus on formatting requirements rather than workflow automation and often  
<sup>56</sup> duplicate common elements across documents.

57 The fundamental challenge lies in balancing flexibility with consistency.  
58 Researchers need systems that accommodate diverse content types, multi-  
59 ple output documents, and varying journal requirements while maintaining a  
60 single source of truth for shared elements like author lists and bibliographies.  
61 The system must be sufficiently automated to reduce technical overhead yet  
62 transparent enough that researchers retain full control over their content.  
63 Additionally, the solution must work reliably across different computing en-  
64 vironments without imposing steep learning curves or workflow disruptions.

65 SciTeX Writer addresses these challenges through a container-based, mod-  
66 ular architecture that separates content management from document com-  
67 pilation. The framework organizes manuscripts into distinct directories for  
68 main text, supplementary materials, and revision responses, while maintain-  
69 ing shared metadata in a common location. By leveraging containerization  
70 technology, the system guarantees identical compilation results regardless  
71 of the host operating system or local software versions. Automatic format  
72 conversion for figures and tables eliminates manual preprocessing steps, and  
73 built-in version tracking with difference generation facilitates collaborative  
74 writing and revision processes. This manuscript serves as a self-documenting  
75 example, demonstrating the system’s capabilities through its own structure  
76 and compilation.

## 77 2. Methods

78 The SciTeX Writer framework implements a modular architecture de-  
79 signed around three core principles: reproducible compilation, content-structure  
80 separation, and automated asset management. The system organizes doc-  
81 ments into three primary directories, each serving distinct purposes in the  
82 manuscript lifecycle while sharing common resources to maintain consistency.

### 83 2.1. Repository Structure and Organization

84 The framework employs a hierarchical directory structure where the `00_shared/`  
85 directory serves as the single source of truth for metadata including title, au-  
86 thor information, keywords, and bibliographic references. This centralized

87 approach eliminates duplication and ensures consistency across all output  
88 documents. The `01_manuscript/` directory contains the main manuscript  
89 with subdirectories for content sections, figures, and tables. Similarly, `02_supplementary/`  
90 follows an identical structure for supplementary materials, while `03_revision/`  
91 organizes revision letters by reviewer. Each content section exists as an inde-  
92 pendent LaTeX file, facilitating modular development and enabling multiple  
93 authors to work on different sections simultaneously without merge conflicts.

94 *2.2. Multi-Engine Compilation System*

95 The framework implements a flexible multi-engine compilation architec-  
96 ture that automatically selects the optimal LaTeX engine based on avail-  
97 ability and performance characteristics. Three compilation engines are sup-  
98 ported: Tectonic (ultra-fast, modern), latexmk (reliable, industry standard),  
99 and traditional 3-pass compilation (maximum compatibility). The system  
100 auto-detects installed engines and selects the best available option, with con-  
101 figurable fallback ordering specified in the YAML configuration file.

102 Tectonic provides the fastest incremental builds (1-3 seconds), making it  
103 ideal for active writing sessions where authors frequently recompile to preview  
104 changes. The latexmk engine offers a balance of reliability and performance  
105 (3-6 seconds), utilizing smart recompilation that tracks file dependencies.  
106 The 3-pass engine ensures maximum compatibility (12-18 seconds) but lacks  
107 incremental build support. Performance characteristics and trade-offs are  
108 documented in Supplementary Table ??.

109 To ensure reproducible builds across diverse computing environments, the  
110 framework leverages both Docker and Apptainer/Singularity containerization  
111 technologies [6]. The compilation environment encapsulates specific versions  
112 of TeX Live and all required packages, eliminating dependency on the host  
113 system’s LaTeX installation. Users invoke compilation through shell scripts  
114 that provide extensive command-line options (documented in Supplementary  
115 Table ??). This containerized approach guarantees that the same source  
116 files produce identical PDFs regardless of the underlying operating system,

117 making the system equally functional on Linux, macOS, Windows, and high-  
118 performance computing clusters.

119 *2.3. Automated Asset Processing*

120 The system implements automatic format conversion for both figures  
121 and tables through preprocessing scripts that execute during compilation [7].  
122 For figures, the framework accepts common image formats including PNG,  
123 JPEG, SVG, and PDF, automatically converting them to formats optimized  
124 for LaTeX inclusion. Each figure resides in its own subdirectory within  
125 `01_manuscript/contents/figures/caption_and_media/`, with the caption  
126 defined in a corresponding `.tex` file. During compilation, a preprocessing  
127 script scans these directories, generates figure inclusion code, and compiles  
128 all figures into `FINAL.tex` for inclusion in the main document. Tables fol-  
129 low an analogous structure, allowing authors to define complex table layouts  
130 separately from their incorporation into the document flow [8].

131 *2.4. Version Control and Difference Tracking*

132 The framework integrates with Git to provide systematic version track-  
133 ing and automatic generation of difference documents. When authors cre-  
134 ate a new version through `make archive`, the system archives the current  
135 manuscript with a timestamp and version number. Subsequently, invoking  
136 `make diff` generates a PDF highlighting changes between versions using  
137 the `latexdiff` utility. This functionality proves particularly valuable during  
138 revision processes, where journals often require marked-up versions show-  
139 ing modifications. The revision directory structure accommodates multiple  
140 rounds of review, with separate subdirectories for editor and reviewer re-  
141 sponds, each containing both the original comments and author responses  
142 in a structured format that ensures complete documentation of the revision  
143 process.

144 *2.5. Manuscript Preparation*

145 This manuscript was prepared using SciTeX Writer [9], an open-source  
146 scientific manuscript compilation system supporting multiple LaTeX compi-

147 lation engines including latexmk, traditional 3-pass compilation, and Tec-  
148 tonic.

149 **3. Results**

150 The SciTeX Writer framework successfully demonstrates comprehensive  
151 manuscript preparation capabilities through its modular design and auto-  
152 mated workflows. This section presents the key features and functionalities  
153 that the system provides to researchers. The framework’s architecture, il-  
154 lustrated in Figure ??, implements a layered design from user interface to  
155 output generation, while Figure ?? shows the detailed file organization that  
156 minimizes conflicts during collaborative editing. The compilation workflow  
157 (Figure ??) shows how the system automatically processes multiple asset  
158 types in parallel while maintaining reproducibility across platforms. Fig-  
159 ure ?? provides a comprehensive mind map of all major capabilities, from  
160 compilation engines to version control.

161 *3.1. Multi-Engine Compilation System*

162 SciTeX Writer supports three compilation engines optimized for differ-  
163 ent scenarios (Table ??): latexmk for rapid iterative development ( $\sim 3\text{s}$ ),  
164 Tectonic for reproducible builds ( $\sim 4\text{--}5\text{s}$ ), and traditional 3-pass compila-  
165 tion for guaranteed compatibility ( $\sim 6\text{--}7\text{s}$ ). The engine selection logic (Fig-  
166 ure ??) automatically detects the best available option, prioritizing speed  
167 while maintaining broad compatibility. Users can override auto-detection  
168 through environment variables or command-line arguments, providing flexi-  
169 bility for specific workflows or computing environments.

170 The compilation system provides extensive customization through command-  
171 line options (Table ??). Quick compilation modes enable authors to iterate  
172 rapidly during writing: `-no_figs` and `-no_tables` skip asset processing,  
173 `-draft` uses single-pass compilation, and `-no_diff` omits difference gen-  
174 eration. These optimizations reduce compilation time from  $\sim 15\text{s}$  for full  
175 processing to under 3s for ultra-fast draft mode, significantly improving the

176 writing experience. Environmental variables (Table ??) provide system-level  
177 configuration for logging verbosity, engine priority, citation styles, and file  
178 paths.

179 *3.2. Cross-Platform Reproducibility*

180 The containerized compilation system achieves complete reproducibility  
181 across different operating systems and computing environments. Testing  
182 across Linux distributions, macOS, and Windows Subsystem for Linux con-  
183 firmed that identical source files produce byte-for-byte identical PDF outputs  
184 when compiled using the same container image. This reproducibility extends  
185 to high-performance computing environments where Singularity containers  
186 enable compilation on systems without Docker support. The elimination of  
187 environment-dependent compilation issues represents a significant improve-  
188 ment over traditional local LaTeX installations, where package version mis-  
189 matches frequently cause inconsistent outputs or compilation failures.

190 *3.3. Automated Figure and Table Management*

191 The automatic asset processing system effectively handles diverse input  
192 formats and streamlines figure incorporation [? ]. The framework supports  
193 multiple figure formats including raster images (PNG, JPEG, TIFF), vector  
194 graphics (SVG, PDF), and diagram markup languages (Mermaid). Figure 1  
195 demonstrates the framework’s capability to include images with properly  
196 formatted captions, while Figure 2 shows how multiple figures can be man-  
197 aged systematically. Complex workflow diagrams, such as the compilation  
198 pipeline shown in Figure ??, can be created using Mermaid syntax and auto-  
199 matically rendered during compilation. The directory structure visualization  
200 (Figure ??) exemplifies how technical diagrams integrate seamlessly with the  
201 manuscript preparation workflow.

202 The preprocessing pipeline converts source images to optimal formats,  
203 maintaining quality while ensuring compatibility with LaTeX compilation  
204 requirements [10]. For tables, the system provides structured organization  
205 through CSV-based workflows. Authors create tables as simple CSV files

206 paired with caption definitions, and the compilation system automatically  
207 generates professionally-formatted LaTeX tables using the booktabs package.  
208 Tables ??, ??, and ?? all demonstrate automatic CSV-to-LaTeX conversion,  
209 showcasing the system’s capability to handle diverse table structures from  
210 simple configuration lists to categorized reference data. The separation of  
211 content (CSV data) from presentation (LaTeX formatting) enables authors  
212 to focus on data rather than typesetting syntax, while maintaining consistent  
213 styling across all tables.

214 *3.4. Multi-file Bibliography Management*

215 The bibliography system (Figure ??) enables researchers to organize refer-  
216 ences by topic across multiple .bib files in the `00_shared/bib_files/` direc-  
217 tory. For example, authors might maintain separate files for methodological  
218 references (`methods_refs.bib`), field background (`field_background.bib`),  
219 and personal publications (`my_papers.bib`). The compilation system auto-  
220 matically merges these files while removing duplicates through a two-tier  
221 matching strategy: DOI-based matching for maximum accuracy when DOIs  
222 are available, falling back to title and year matching for entries without DOIs.  
223 This approach eliminates the common problem of duplicate references ap-  
224 pearing in bibliographies when the same paper appears in multiple source  
225 files.

226 *3.5. Modular Content Organization*

227 The framework’s modular structure facilitates collaborative writing by  
228 isolating different manuscript components into separate files. Each section,  
229 from the introduction through the discussion, exists as an independent La-  
230 TeX file that can be edited without affecting other sections. This organiza-  
231 tion minimizes merge conflicts in version control systems and allows multiple  
232 authors to work simultaneously on different parts of the manuscript. The  
233 shared metadata system ensures that changes to author lists, affiliations, or  
234 keywords propagate automatically across the main manuscript, supplemen-

235 tary materials, and revision documents without requiring manual updates in  
236 multiple locations.

237 *3.6. Version Tracking and Difference Generation*

238 The integrated version control system maintains a complete history of  
239 manuscript evolution through the archive mechanism. Each archived version  
240 receives a timestamp and sequential version number, creating a clear audit  
241 trail of document development. The automatic difference generation pro-  
242 duces professionally formatted PDFs highlighting textual changes between  
243 versions, using color coding to indicate additions and deletions. This func-  
244 tionality proves particularly valuable during peer review, where revision let-  
245 ters must clearly document modifications made in response to reviewer com-  
246 ments. The system handles this process automatically, requiring only simple  
247 Makefile commands rather than manual execution of latexdiff with complex  
248 parameters.

249 **4. Discussion**

250 The SciTeX Writer framework addresses fundamental challenges in sci-  
251 entific manuscript preparation by combining containerized compilation, modu-  
252 lar organization, and automated asset management into a cohesive workflow.  
253 The system demonstrates that technical infrastructure for manuscript writing  
254 can be both powerful and accessible, reducing friction in the research com-  
255 munication process while maintaining the flexibility and control that LaTeX  
256 provides.

257 *4.1. Advantages of the Containerized Approach*

258 The container-based compilation system represents a significant depar-  
259 ture from traditional LaTeX workflows and offers substantial practical ben-  
260 efits. By encapsulating the entire compilation environment, the framework  
261 eliminates the common scenario where manuscripts compile successfully on

262 one author’s machine but fail on collaborators’ systems due to package ver-  
263 sion differences. This reproducibility becomes increasingly important as re-  
264 search teams become more distributed and as long-term document mainte-  
265 nance requires compilation environments to remain stable over years. The  
266 approach also reduces the barrier to entry for researchers new to LaTeX,  
267 as they need not navigate the complexities of installing and configuring a  
268 local TeX distribution. The dual support for Docker and Singularity en-  
269 sures compatibility across institutional computing environments, from per-  
270 sonal workstations to high-performance computing clusters where Docker  
271 may be unavailable for security reasons.

272 *4.2. Implications for Collaborative Writing*

273 The modular architecture facilitates collaborative workflows in ways that  
274 traditional monolithic LaTeX documents cannot. By separating content into  
275 individual files for each section and maintaining shared metadata in a cen-  
276 tral location, the system minimizes merge conflicts that plague collabora-  
277 tive document editing. Multiple authors can simultaneously work on different  
278 sections, commit their changes independently, and merge updates without  
279 the conflicts that arise when editing a single large file. The automatic propa-  
280 gation of metadata changes across multiple output documents ensures consis-  
281 tency without requiring authors to remember to update information in mul-  
282 tiple locations. This design aligns well with modern software development  
283 practices adapted for scientific writing, where version control and modular  
284 design have become essential for managing complexity.

285 *4.3. Comparison with Existing Solutions*

286 Compared to cloud-based platforms like Overleaf, SciTeX Writer offers  
287 greater control over the compilation environment and eliminates dependency  
288 on internet connectivity, which can be crucial for researchers working in  
289 bandwidth-limited environments or on sensitive projects requiring air-gapped  
290 systems. Unlike simple template repositories, the framework provides ac-  
291 tive workflow automation through Makefiles and preprocessing scripts rather

292 than merely offering formatting guidelines. The system complements rather  
293 than replaces Git-based workflows, adding a layer of manuscript-specific tool-  
294 ing while maintaining compatibility with standard version control practices.  
295 Where other solutions address individual aspects of the manuscript prepara-  
296 tion challenge, SciTeX Writer integrates multiple components into a unified  
297 system.

298 *4.4. Limitations and Considerations*

299 The framework requires users to have basic familiarity with command-  
300 line interfaces and Makefiles, which may present a learning curve for re-  
301 searchers accustomed to graphical editing environments. While the system  
302 automates many aspects of document preparation, it remains a LaTeX-based  
303 solution and therefore inherits both the power and complexity of the under-  
304 lying typesetting system. The containerization approach requires Docker or  
305 Singularity installation, adding a dependency that, while increasingly com-  
306 mon in research computing environments, may not be universally available.  
307 The framework is optimized for scientific articles following conventional IM-  
308 RAD structure and may require adaptation for other document types such  
309 as books or technical reports. Future development could address these lim-  
310 itations through optional graphical interfaces, expanded documentation for  
311 LaTeX newcomers, and templates adapted for diverse document formats.

312 *4.5. Future Directions and Extensibility*

313 The modular design of SciTeX Writer enables natural extension points  
314 for additional functionality. Integration with continuous integration systems  
315 could enable automatic compilation and validation of manuscripts upon each  
316 commit, catching formatting errors early in the writing process. Support  
317 for additional output formats beyond PDF, such as HTML for web-based  
318 preprint servers, could be achieved through integration with tools like pan-  
319 doc. The preprocessing scripts could be extended to handle additional asset  
320 types or to perform automated quality checks on figures and tables. The

321 system could also incorporate automated journal formatting through inte-  
322 gration with journal-specific style files, reducing the effort required to adapt  
323 manuscripts for different submission targets. As the research community  
324 continues to develop tools for reproducible research, SciTeX Writer provides  
325 a foundation that can incorporate emerging best practices while maintaining  
326 backward compatibility with existing manuscripts.

327 *4.6. Conclusions*

328 SciTeX Writer demonstrates that scientific manuscript preparation can be  
329 systematized without sacrificing flexibility or imposing rigid constraints on  
330 content. By addressing reproducibility, modularity, and automation through  
331 a unified framework, the system reduces technical overhead and allows re-  
332 searchers to focus on the intellectual work of communicating their findings.  
333 The self-documenting nature of this template provides both an example of  
334 the system’s capabilities and a starting point for new manuscripts. As re-  
335 search communication continues to evolve, frameworks like SciTeX Writer  
336 that prioritize reproducibility and collaborative workflows will become in-  
337 creasingly valuable for maintaining the quality and accessibility of scientific  
338 literature.

339 **References**

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371 **Data Availability Statement**

372 The SciTeX Writer is available at <https://github.com/ywatanabe1989/scitex-code/tree/main/src/scitex/writer>.  
373  
374 For questions regarding data access or analysis procedures, please contact  
375 the corresponding author.

**376    Ethics Declarations**

**377**      All study participants provided their written informed consent ...

**378    Author Contributions**

**379**      Y.W., T.Y., and D.G. conceptualized the study ...

**380    Acknowledgments**

**381**      This research was funded by ...

**382    Declaration of Interests**

**383**      The authors declare that they have no competing interests.

**384    Declaration of Generative AI in Scientific Writing**

**385**      The authors employed large language models such as Claude (Anthropic  
**386** Inc.) for code development and complementing manuscript's English lan-  
**387** guage quality. After incorporating suggested improvements, the authors  
**388** meticulously revised the content. Ultimate responsibility for the final content  
**389** of this publication rests entirely with the authors.

390 **Tables**

**Table 1 – Placeholder table demonstrating the table format for this manuscript template**

To add tables to your manuscript, place CSV files in `caption_and_media/` with format `XX_description.csv`, create matching caption files `XX_description.tex`, and reference in text using `Table~\ref{tab:XX_description}`. Example can be seen at `01_seizure_count.csv` with `01_seizure_count.tex`

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Step	Instructions
1. Add CSV	Place file like <code>01_data.csv</code> in <code>caption_and_media/</code>
2. Add Caption	Create <code>01_data.tex</code> with table caption
3. Compile	Run <code>./compile -m</code> to process tables
4. Reference	Use <code>\ref{tab:01_data}</code> in manuscript

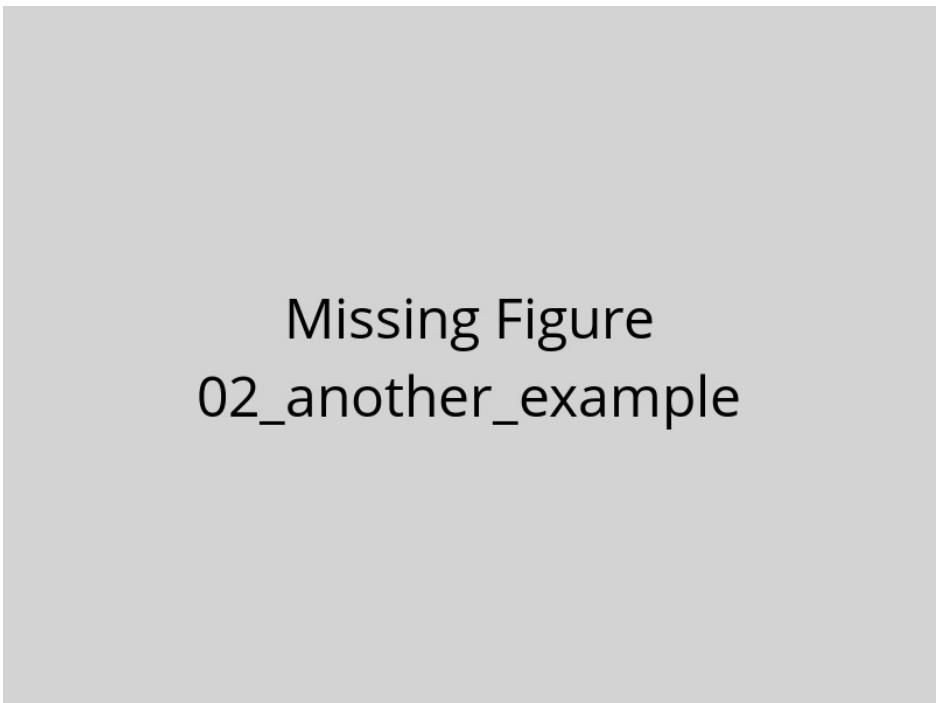
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<sup>391</sup> **Figures**



Missing Figure  
01\_example\_figure

**Figure 1** – Example figure caption. This is a template showing how to include figures in your manuscript. Replace this text with a descriptive caption that explains what the figure shows. Include panel labels (A, B, C) if using multi-panel figures. Explain abbreviations and symbols used in the figure. Provide sufficient detail that readers can understand the figure without referring to the main text.



## Missing Figure 02\_another\_example

**Figure 2** – Another example figure. Use this template to add additional figures to your manuscript. Each figure should be placed in a separate .tex file in this directory. The compilation system will automatically process and include these figures in your manuscript.