

# Package ‘authordown’

January 22, 2026

**Title** Author Metadata Management and Manuscript Front Matter

**Version** 0.1.0

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**Description** Manage author metadata and generate manuscript front matter, including title pages, acknowledgements, conflicts of interest, and contributions, with support for large author lists.

**License** AGPL-3

**URL** <https://github.com/zh1peng/authordown>

**BugReports** <https://github.com/zh1peng/authordown/issues>

**Encoding** UTF-8

**Depends** R (>= 3.5)

**Roxxygen** list(markdown = TRUE)

**RoxxygenNote** 7.3.2

**Imports** cli, openxlsx, rlang, shiny

**Suggests** testthat (>= 3.0.0)

**Config/testthat.edition** 3

## Contents

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authordown

*Generate all sections (title page, acknowledgement, conflict, contribution)*

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### Description

A convenience wrapper that calls the various section generators and combines them into one text block. Ideal for quick copy-paste into Word.

## Usage

```
authordown(
  data,
  title = NULL,
  style = "default",
  show_degree = FALSE,
  acknowledgement_style = "paragraph",
  conflict_style = "paragraph",
  contribution_style = "paragraph"
)
```

## Arguments

<code>data</code>	A data frame with the columns needed by each function: <code>generate_title_page</code> , <code>generate_acknowledgement</code> , <code>generate_conflict</code> , <code>generate_contribution</code> .
<code>title</code>	Optional paper title to pass to <code>generate_title_page()</code> .
<code>style</code>	Title page style ("default", "APA", "Nature").
<code>show_degree</code>	Logical. If TRUE, include Degree after author names.
<code>acknowledgement_style</code>	Output style for acknowledgements.
<code>conflict_style</code>	Output style for conflicts of interest.
<code>contribution_style</code>	Output style for contributions.

## Value

A character string containing all sections.

## Examples

```
## Not run:
authors <- read.csv("authordown_template.csv")
cat(authordown(authors, title = "My Great Paper", style = "default"))

## End(Not run)
```

`authordown_read_local` *Read a local author metadata file*

## Description

Reads a CSV/TSV/XLSX file and returns a standardized data frame.

## Usage

```
authordown_read_local(path, sheet = NULL, validate = TRUE)
```

**Arguments**

path	Path to a local CSV, TSV, or XLSX file.
sheet	Optional sheet name or index for XLSX files.
validate	Logical. If TRUE, validate the data.

**Value**

A data frame with standardized columns.

**Examples**

```
## Not run:  
authors <- authordown_read_local("authors.csv")  
  
## End(Not run)
```

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authordown\_template     *Write an authordown input template*

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**Description**

Copies a standard author metadata template from the package into the requested path.

**Usage**

```
authordown_template(path = "authordown_template.csv", format = NULL)
```

**Arguments**

path	Output file path. Extension determines format if <code>format</code> is not supplied.
format	Optional format override: "csv" or "xlsx".

**Value**

Invisibly returns the output path.

**Examples**

```
## Not run:  
authordown_template("authors.csv")  
authordown_template("authors.xlsx")  
  
## End(Not run)
```

**authordown\_validate**    *Validate author metadata*

### Description

Checks required columns and key formats such as order, email, ORCID, and corresponding author rules.

### Usage

```
authordown_validate(data, require_affiliations = FALSE)
```

### Arguments

data	A data frame of author metadata.
require_affiliations	Logical. If TRUE, require at least one affiliation column.

### Value

The validated, standardized data frame.

### Examples

```
authors <- data.frame(FirstName = "Alice", LastName = "Smith")
authordown_validate(authors)
```

**generate\_acknowledgement**    *Generate an Acknowledgement Section*

### Description

Combines acknowledgements from each author into a single formatted block.

### Usage

```
generate_acknowledgement(data, style = c("paragraph", "bullets", "numbered"))
```

### Arguments

data	A data frame containing at least the column Acknowledgement.
style	Output style: "paragraph", "bullets", or "numbered".

### Value

A character string with the formatted acknowledgements.

## Examples

```
authors <- data.frame(
  FirstName = c("Alice", "Bob"),
  LastName = c("Smith", "Johnson"),
  Acknowledgement = c("Thanks for funding A", "Supported by XYZ"),
  stringsAsFactors = FALSE
)
generate_acknowledgement(authors, style = "paragraph")
```

generate\_conflict      *Generate a Conflict of Interest Statement*

## Description

Produces a readable conflict statement. If all authors report no conflict, it states so. Otherwise, it lists the authors reporting conflicts and then indicates that the remaining authors declare no conflict.

## Usage

```
generate_conflict(data, style = c("paragraph", "bullets", "numbered"))
```

## Arguments

- |       |  |
|-------|--|
| data  | A data frame containing at least the columns: FirstName, LastName, and Conflict. |
| style | Output style: "paragraph", "bullets", or "numbered".                             |

## Value

A character string with the formatted conflict statement.

## Examples

```
authors <- data.frame(
  FirstName = c("Alice", "Bob"),
  LastName = c("Smith", "Johnson"),
  Conflict = c("No conflict", "Consultant at Company Z"),
  stringsAsFactors = FALSE
)
generate_conflict(authors, style = "paragraph")
```

`generate_contribution` *Generate Author Contributions*

## Description

Combines each author's contribution statement into a clear paragraph. Each line indicates the author and their specific contribution.

## Usage

```
generate_contribution(
  data,
  style = c("paragraph", "bullets", "numbered"),
  list_style = NULL
)
```

## Arguments

<code>data</code>	A data frame containing at least the columns: FirstName, LastName, and Contribution.
<code>style</code>	Output style: "paragraph", "bullets", or "numbered".
<code>list_style</code>	Deprecated. Use <code>style</code> . When provided, TRUE maps to "bullets" and FALSE maps to "paragraph".

## Value

A character string summarizing the author contributions.

## Examples

```
authors <- data.frame(
  FirstName = c("Alice", "Bob"),
  LastName = c("Smith", "Johnson"),
  Contribution = c("Conceptualization; Data curation", "Supervision; Writing - review"),
  stringsAsFactors = FALSE
)
generate_contribution(authors, style = "paragraph")
```

`generate_template` *Generate a sample CSV template for authordown*

## Description

Creates a sample CSV (or Excel) with columns for authors, affiliations, acknowledgments, conflicts, etc.

## Usage

```
generate_template(file = "authordown_template.csv", excel = FALSE)
```

**Arguments**

file	A file path where the template should be written. Defaults to \"authordown_template.csv\" in the current directory.
excel	Logical. If TRUE, writes an Excel file (.xlsx) instead of CSV.

**Value**

Invisibly returns the data frame used for the template.

**Examples**

```
## Not run:
generate_template() # writes authordown_template.csv

## End(Not run)
```

generate\_title\_page    *Generate a Title Page*

**Description**

Produces a formatted title page that includes the paper title, author names with affiliation indices, and an affiliation legend. Optionally adds a note for co-first authors.

**Usage**

```
generate_title_page(
  data,
  style = c("default", "APA", "Nature"),
  title = NULL,
  show_degree = FALSE,
  co_first_footnote = TRUE
)
```

**Arguments**

data	A data frame containing at least: FirstName, MiddleName, LastName, (optionally) Rank, Correspondence, and one or more Affiliation* columns.
style	A character string specifying the style (e.g., "default", "APA", "Nature").
title	An optional paper title.
show_degree	Logical. If TRUE, include Degree after author names.
co_first_footnote	Logical. If TRUE and Rank is provided, adds a note for co-first authors.

**Value**

A character string with the formatted title page.

## Examples

```
authors <- data.frame(
  FirstName = c("Alice", "Bob"),
  MiddleName = c("M.", ""),
  LastName = c("Smith", "Johnson"),
  Degree = c("PhD", "MD"),
  Email = c("alice@example.com", "bob@example.com"),
  Rank = c(1, 2),
  Correspondence = c(TRUE, FALSE),
  Affiliation1 = c("University of X, Dept. of Y", "University of X, Dept. of Y"),
  Affiliation2 = c(NA, "Company Z, Research Division"),
  stringsAsFactors = FALSE
)
generate_title_page(authors, style = "default", title = "Example Paper", show_degree = TRUE)
```

`render_section_html`    *Render a Manuscript Section to HTML*

## Description

This function takes a section title, a content-generating function, and a data frame, then produces an HTML file that displays the section header and its content. This generic function works for any section (e.g. Conflict of Interest, Author Contributions, Acknowledgements).

## Usage

```
render_section_html(
  section_title,
  content_function,
  data,
  output_file = tempfile(fileext = ".html")
)
```

## Arguments

<code>section_title</code>	A character string for the section header (e.g., "Conflict of Interest").
<code>content_function</code>	A function that accepts a data frame and returns a formatted character string.
<code>data</code>	A data frame containing the necessary columns.
<code>output_file</code>	The path to the output HTML file. Defaults to a temporary file.

## Value

A character string with the path to the rendered HTML file.

## Examples

```
## Not run:
# To render the Conflict of Interest section:
html_path <- render_section_html("Conflict of Interest", generate_conflict, authors)
browseURL(html_path)

## End(Not run)
```