

Writing a Bibliography

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- ▶ Some references
- ▶ Good Practices
- ▶ Format
- ▶ MathSciNet etc.
- ▶ $\text{BIB}_{\text{T}}\text{E}_{\text{X}}$

Some References

- ▶ Writing a bibliography
 - ▶ [1, pages 97-102], [2, pages 73-78]
- ▶ $\text{BIB}_{\text{T}}\text{E}_{\text{X}}$
 - ▶ [1, pages 196-202], [3, pages 70-71]

Importance

- ▶ Due credit
- ▶ Establishes context
- ▶ Clarity and accuracy

- ▶ Use only original sources, this avoids inaccuracies
 - ▶ See [1, page 98] for examples of bibliographic inaccuracies that have been propagated due to citation via secondary sources
- ▶ Give names including initials as they appear
- ▶ Cite titles as is even if there is a mistake (or note correction)
- ▶ Cite from the article not from the cover of the journal
- ▶ Check to see if citation has appeared
- ▶ Note accented letters
- ▶ Sometimes journals change names
 - ▶ Bulletin of Mathematical Biology used to be Bulletin of Mathematical Biophysics
 - ▶ SIAM Journal on Scientific Computing used to be SIAM Journal on Scientific and Statistical Computing

- ▶ Maintain all reference info in reference database even if not used in bibliography
- ▶ Use standard journal abbreviations
 - ▶ Standard abbreviations for math journals can be found on MathSciNet
 - ▶ Standard abbreviations for many bio journals on Pub Med

The format or style of the bibliography depends on where it appears. Some common styles from math journals are (from [1, page 98]):

SIAM journals: J. H. WILKINSON, *Error analysis of floating-point computation*, Numer. Math., 2 (1960), pp. 319–340.

IMA journals: WILKINSON, J. H. 1960 Error analysis of floating-point computation. *Numer. Math.* **2**, 319–340.

Elsevier journals: J. H. Wilkinson, Error analysis of floating-point computation, *Numer. Math.* 2:319–340 (1960).

Springer-Verlag journals: Wilkinson, J. H. (1960): Error analysis of floating-point computation. Numer. Math. **2**, 319–340.

There are different ways to cite in the text and different ways to list references:

- ▶ Author-date-page
 - ▶ In this case references will typically be listed alphabetically
- ▶ By a number and page
 - ▶ In this case references will typically be listed in order of citation
- ▶ Harvard style

Note: UI thesis accepts either of the first two styles.

BIBTEX is a program by Oren Patashnik and Leslie Lamport that produces a source list containing bibliographic information. To use:

- ▶ Create `.bib` file with bibliographic info
- ▶ In \LaTeX file include

```
\bibliography{filename}  
\bibliographystyle{style}
```

- ▶ Run \LaTeX , run BIBTEX, run \LaTeX again, run \LaTeX one more time

See [3, pages 69-70] or [1, 196-202] for further details.

BIB_TEX format from MathSciNet

```
@book {higham,  
  AUTHOR = {Higham, Nicholas J.},  
  TITLE = {Handbook of writing for the mathematical sciences},  
  EDITION = {Second},  
  PUBLISHER = {Society for Industrial and Applied Mathematics (SIAM)},  
  ADDRESS = {Philadelphia, PA},  
  YEAR = {1998},  
  PAGES = {xvi+302},  
  ISBN = {0-89871-420-6},  
  MRCLASS = {00A20},  
  MRNUMBER = {1640787 (99g:00017)},  
}
```

Be sure to cross check with original article.

Some other sources for bibliographic information:

- ▶ Pub Med
- ▶ MathSciNet
- ▶ Journal websites
- ▶ UI E journals

References I

- [1] Nicholas J. Higham.
Handbook of writing for the mathematical sciences.
Society for Industrial and Applied Mathematics (SIAM),
Philadelphia, PA, second edition, 1998.
- [2] Steven G. Kratz.
A primer of mathematical writing.
American Mathematical Society (AMS), Providence, RI,
1997.
- [3] Leslie Lamport.
*L^AT_EXa document preparation system user's guide and
reference manual.*
Addison-Wesley, Boston, MA, second edition, 1997.