

Literature Survey and Writing Tools

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Methods for Literature Survey

A few points from "How to Do a Technical Reading Program, by Fred Brooks Jr., and ammended by Neil Dodgson."

- ▶ Search for the citations
 - ▶ Back-chaining from current papers
 - ▶ Indexes
 - ▶ Specialized bibliographies
 - ▶ Computing Reviews and the annual indexes thereof
 - ▶ Forward-chaining to papers that cite this one (e.g., via Google Scholar)
- ▶ Grade each citation with a priori (that is, guessed) "grades"

Reading Research Papers

A number of researchers have offered their opinion, e.g.,

- ▶ S. Keshav. 2007. How to read a paper. SIGCOMM Comput. Commun. Rev. 37, 3 (July 2007), 83-84.
DOI=10.1145/1273445.1273458
<http://doi.acm.org/10.1145/1273445.1273458>
- ▶ Elisabetath Pain, How to (seriously) read a scientific paper, Science Magazine Online, Mar. 21, 2016. <https://www.sciencemag.org/careers/2016/03/how-seriously-read-scientific-paper>

Writing Research Papers

A number of references available, e.g.,

- ▶ Gopen, George D., and Judith A. Swan. “[The science of scientific writing](#).” *American Scientist* (1990): 550-558.

Reference Management Tools

There are quite a few citation management tools, for instance,

- ▶ Zotero
- ▶ CiteULike
- ▶ BibSonomy
- ▶ Mendeley
- ▶ EndNote

and see the Wikipedia article [“Comparison of reference management software”](#)

Writing Tools

- ▶ Recommend LaTeX. If you unfamiliar with it, you can use
- ▶ [Overleaf](#)
- ▶ Other tools including Microsoft Word, Office 365, Google Doc, Apple Pages, and Authorea

Presentation Tools

- ▶ Microsoft PowerPoint
- ▶ Apple Keynote
- ▶ LaTeX Beamer
- ▶ Prezi

Version Control

Version control can also help you keep a backup and work on different computers, e.g.,

- ▶ Git
- ▶ Mercury (Hg)

Free repositories available at multiple vendors,

- ▶ Github (via [Github Education](#))
- ▶ Gitlab
- ▶ Bitbucket

Private Github Repositories for the Class

The instructor provides private Git repositories to the students via Github Classroom.