Information Skills for Computer Science researchers

Alessandra Vetrugno
Computer Science and Engineering Librarian
alessandra.vetrugno@bodleian.ox.ac.uk
Plan for this session

Where to find subject-specific information
Searching bibliographic databases
Keeping up-to-date
Saving and managing your references
Further support
Computer Science: Home

Subjects: Computer Science, Patents

The Radcliffe Science Library (RSL) is the main science research library at the university and is part of the Bodleian Libraries at Oxford.

Website:
www.bodleian.ox.ac.uk/science

Library Resources for Computer Science

This guide will provide you with information about resources available through the Bodleian Libraries to help support learning, teaching, and research in Computer Science. Each tab is devoted to particular types of resources or tools. Click on one to find out more:

Your subject librarian, Alessandra Vetrugno, is based at the Radcliffe Science Library. Please contact her for more information regarding:

- General library services & resources
- Library inductions and information skills training
- In-depth research support
- Individual or group consultations as required on a variety of topics
- Queries regarding Open Access policies
- Book and journal recommendations for library purchase

Upcoming Training Sessions for Computer Science students

https://libguides.bodleian.ox.ac.uk/computer_science
Safari ebooks online
New Course Program: Modernizing the Smart Grid

This new eLearning program from IEEE is a four-course program designed to get engineers up-to-date quickly on the latest smart grid technologies.

Learn More
Literature search planning

Research topic:

“Cyber attacks on IoT devices”
Helpful when you know already the article you are looking for

Great when you are unsure about details of an article or with journal abbreviations

Find it @ Oxford link – access to our subscriptions from everywhere - find it in Google Scholar Settings -> Library Links

Google Scholar Button to access Google Scholar for any web page – find it in Google Scholar Settings -> Button

Searching tips:
Filetype: followed by a file extension to search for PDFs, presentations or spreadsheets
Example: filetype: xls, filetype: xlsx, filetype: csv for spreadsheets

Author: to find papers authored by a specific author
Example: author:

Repeat the most important term or terms in your search one or more times
Which are the most popular articles?
Can I find information about every author?
I’m looking for a collaboration: which Universities are prolific on my research topic?
Can I save my searches?
Can I combine results of my searches?
Has this article been published on predatory journal?
Bibliographic databases

Index the scientific literature

- Books (often chapter level indexing)
- Journals
- Conferences
- Patents
- Grey literature

Usually searching bibliographic records which include abstracts but not the full text of papers

Search for any topic, author or publication of interest

Employ a wide range of advanced search tools
Breaking down a research question

<table>
<thead>
<tr>
<th>Keywords</th>
<th>Concept 1</th>
<th>Concept 2</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Cyber attacks</td>
<td>IoT</td>
</tr>
</tbody>
</table>
You can use multiple search boxes with different search criteria for each of them.

Limit your search by date range or document type.
Find ideas for new keywords or synonyms looking at keywords used to index relevant articles.
Breaking down a research question

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<td>Cyber attacks</td>
<td>IoT</td>
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<tr>
<td></td>
<td>Computer crime</td>
<td>Internet of things</td>
</tr>
</tbody>
</table>
Wildcards and Phrases

Wildcard symbols for word variants

**Truncation:**
model* for modeling, models...

**British and American spelling:**
Behavio*r, characteri?ation

**Phrases:**
“computer crime”
Indexes a different range of journals to Scopus
Full-text of conference proceedings and journal articles in electrical engineering, computer science, and electronics
Full-text of conference proceedings and journal articles published by the Association for Computing Machinery
Full-text of conference proceedings and journal articles in electrical engineering, computer science, and electronics

Citation Searching
Citation searching (finding out which articles have cited an article or book after publication) can be done on Web of Science

Other Relevant Guides
See Subject Guides in the area of Medicine, along with the following guides:
- The Sainsbury Library: Key Business Resources

Search tips
Databases are provided on different interfaces. Most of them support the following functions:
Multiple sources

Search:
“mobile robot” AND “trajectory control” in Keywords (Topic for Web of Science)

After refining results to articles published in the last 5 years

**Results:**
Web of Science: 171
Scopus: 9
IEEE Xplore: 65

26 duplicates
Refworks: 216 unique records!!
Keeping up-to-date

Search alerts:
Bibliographic databases allow you to set search alerts

Citation alerts:
Alerts can be set for citation of a specific author or publication

Alert services:
ZETOC, JournalToC
Finding open access material and pre-prints

DOAJ: [https://www.doaj.org/](https://www.doaj.org/) - Directory of Open Access Journals

CORE (COnecting REpositories): [https://core.ac.uk/](https://core.ac.uk/) - open access content from UK and worldwide repositories, and open access journals

BASE (Bielefeld Academic Search Engine) - [https://www.base-search.net/](https://www.base-search.net/) – The 60% of the indexed documents are accessible for free (Open Access).


OSF Preprints: [https://osf.io/preprints](https://osf.io/preprints) - all subjects including Engineering [https://engrxiv.org](https://engrxiv.org)

Find out more in the Tools and Resources section of the Open Access website: [http://openaccess.ox.ac.uk/tools-resources/](http://openaccess.ox.ac.uk/tools-resources/)
Is there anything we don’t have at Oxford?

If you can’t access electronic material:
- Double check on SOLO if we have the print version
- If it is an article, search SOLO by journal title. We might have it in print in our Remote Storage Facility in Swindon. Sign in with your SSO and place a Hold request

If we don’t have it:
- Contact me!
- Apply for an interlibrary loan at £5 per item
  Place your request online here: https://solo.bodleian.ox.ac.uk/interlib

More info on the Interlibrary loan service: https://www.bodleian.ox.ac.uk/bodley/using-this-library/ill
Hands on Activity

Section 1 - 2 - 3 - 4 of your Workbook
Theses:

**Oxford:** SOLO & ORA

**Non-Oxford:** EThOS, DART-Europe

**North American:** Proquest Dissertations and Theses
Use of Oxford resources

Only use for study and research
Don’t share passwords or content

E-resources – we can download:
- one chapter or the 5% of an ebook content
- One article for e-journal issue

Print resources – we can photocopy or scan:
- one chapter or the 5% of a book
- One article for journal issue
Reference Management Software
What’s the point of reference managers?

1. Staying organised
   * Collect information about everything you’ve read in one place.

2. Saving time
   * Speed up adding citations and creating bibliographies in documents.
How reference managers work

Export references from a Database to your reference manager.
If no direct export is available, save references in .bib or .ris file and import this file in your reference management software.

Add automatically in-text citations and whole references to your paper.
Export from a database
Adding in-text citation and bibliography to your LaTeX document

Generate and copy the \cite command for your LaTeX script directly from the reference you want to cite.
Adding in-text citation and bibliography to your Word document

Use the Mendeley plug in for Word to browse your Mendeley library and insert in-text citations into your Word Document.

Citations will appear in your chosen referencing style. You can change your referencing style with one click.

(Chang, Kuo and Ramachandran, 2015)

(Nava et al., 2015)
Adding in-text citation and bibliography to your Word document

(Chang, Kuo and Ramachandran, 2015)

(Naval et al., 2015)


## Pros and Cons

<table>
<thead>
<tr>
<th>Pros</th>
<th>EndNote</th>
<th>EndNote online</th>
<th>Zotero</th>
<th>Mendeley</th>
<th>ColWiz</th>
<th>Papers</th>
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<tbody>
<tr>
<td>RefWorks</td>
<td>Large number of citation styles</td>
<td>Works very well with Web of Science / Web of Knowledge</td>
<td>iPhone/Android apps, Simple firefox plugin, web interface or desktop app</td>
<td>IPhone/Android apps, Social networking, Collaborative research management tools</td>
<td>IPhone/Android apps, Collaborative pdf annotation / notes</td>
<td>PDF annotation, Social network, Mobile app, Large number of citation styles</td>
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<td>RefMobile</td>
<td>Copes well with a very large library, iPad App</td>
<td>Word Processor plug-in compatible with MS Word, Apache OpenOffice and Pages</td>
<td>Useful tools for creating references from websites</td>
<td>Mendeley papers catalogue</td>
<td>Mendeley desktop and mobile app, Social networking</td>
<td></td>
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<tr>
<td>Bodleian Libraries subscription provides free access for University members including alumni</td>
<td>Large number of citation styles, Journal abbreviation recognition</td>
<td>Extend functionality using plug-ins.</td>
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<tr>
<td>Access your library from any computer with an internet connection</td>
<td>Word Processor plug-in only compatible with MS Word</td>
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<tr>
<td>Cannot extract metadata from pdfs</td>
<td>Not compatible with Linux</td>
<td>Limited free storage space (300 MB)</td>
<td>Synching of desktop application to web account NOT automatic</td>
<td>Desktop application required for direct export of references</td>
<td>Need to purchase the software</td>
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## Availability

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<th>Papers</th>
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<tr>
<td>RefWorks</td>
<td>Web-based</td>
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<td>Web browser extension, desktop and mobile app</td>
<td>Web, desktop and mobile app</td>
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</tr>
<tr>
<td>RefMobile</td>
<td>Desktop</td>
<td>Web-based</td>
<td>Freely available</td>
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<td>Freely available</td>
<td>Freely available</td>
</tr>
<tr>
<td>Bodleian Libraries subscription provides free access for University members including alumni</td>
<td>Version x7 available to buy through IT Services for your personal PC or mac</td>
<td>Purchase through iTunes store.</td>
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<tr>
<td>iPad App available. Purchase through iTunes store.</td>
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<tr>
<td>Costs $59/$34 (student discount) Mobile app separate purchase through iTunes store</td>
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<td></td>
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<td>30 day free trial</td>
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## Features

- Web, desktop and mobile app
Further support with:

Research Impact
https://libguides.bodleian.ox.ac.uk/bibliometrics

Open Access at Oxford
http://openaccess.ox.ac.uk/

Research Data Management at Oxford
http://researchdata.ox.ac.uk/
Open Access to Oxford Publications

Meeting RCLIK OA Requirements

Follow Us

Follow us on Twitter

Contact the teams

Open Access helpline
openaccess@bodleian.ox.ac.uk

APC Team apc@bodleian.ox.ac.uk

ORA Team ora@bodleian.ox.ac.uk

Symplectic symplectic@admin.ox.ac.uk

Local contacts Department contacts & Subject librarians

Latest News

Open Access and monographs: publishers, policies & practicalities. Tue 5 March 2019
Jan 07, 2019

Make ‘Act on Acceptance’ one of your New Year’s resolutions
Jan 03, 2019

Open Access services Christmas 2018 closure dates
Dec 18, 2018

Plan S update: implementation guidance and consultation period
Dec 17, 2018

Save the date: Open Access Oxford Week, 4-8 March 2019
Dec 03, 2018

Quick links

Deposit your Work - Act on Acceptance

REF 2021 OA policy - Oxford & next REF

Our REF FAQ - about REF 2021 OA policy
Research Data Management

Research Data at Oxford website [http://researchdata.ox.ac.uk](http://researchdata.ox.ac.uk)

University of Oxford Policy on the Management of Research Data and Records
Researchers’ and Institution responsibilities related to Research Data

Help with Data Management planning

Information about funders’ requirements

Ethical issues and more...

[ORA DATA](http://researchdata.ox.ac.uk) Institutional repository

Help contact: researchdata@ox.ac.uk
Hands on Activity

Section 4 - 5 - 6 of your Workbook
Final Thoughts

Computer Science Library Guide:
https://libguides.bodleian.ox.ac.uk/computer_science

Subject Librarian:
alessandra.vetrugno@bodleian.ox.ac.uk

Feedback:
https://oxford.onlinesurveys.ac.uk/library-skills-training-for-the-sciences-2019-20

Thank you! Any questions?