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INM373
RESEARCH METHODS & PROFESSIONAL ISSUES

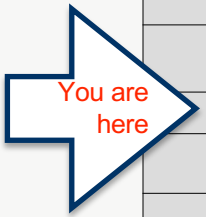
Academic excellence for
business and the professions

Session 3
Literature Search & Review

Dr Ernesto Priego
Centre for Human-Computer Interaction Design

Where am I?

RMPI 2019 Weekly Lectures



Week	Topic	Lecturer
1	**Intro to RMPI**	Ernesto Priego
2	**Creativity**	Stephann Makri
3	**Literature Review**	Ernesto Priego
4	**Mixed Methods**	Simone Stumpf
5	**Quantitatve Methods I**	Nikos Komninos
6. Reading Week	No lecture	N/A
7	**Quantitative Methods II**	Andrey Povyakalo
8	**Qualitative Methods**	Alex Taylor
9	**Design & Build**	Cristina Gacek
10	**Research Ethics**	Ernesto Priego
11	**Project Planning and Proposals**	Course Directors

Things to focus on this deck of slides and in the reading materials

Use of Literature:

- Sources
- Search vs Review
- Citation standards; management
- Evaluation
- Synthesis
- Resources shared, cited on this deck of slides— find the sources, search for more; read around

"RESEARCH IS A PARTICULAR KIND OF EVERYDAY THINKING"

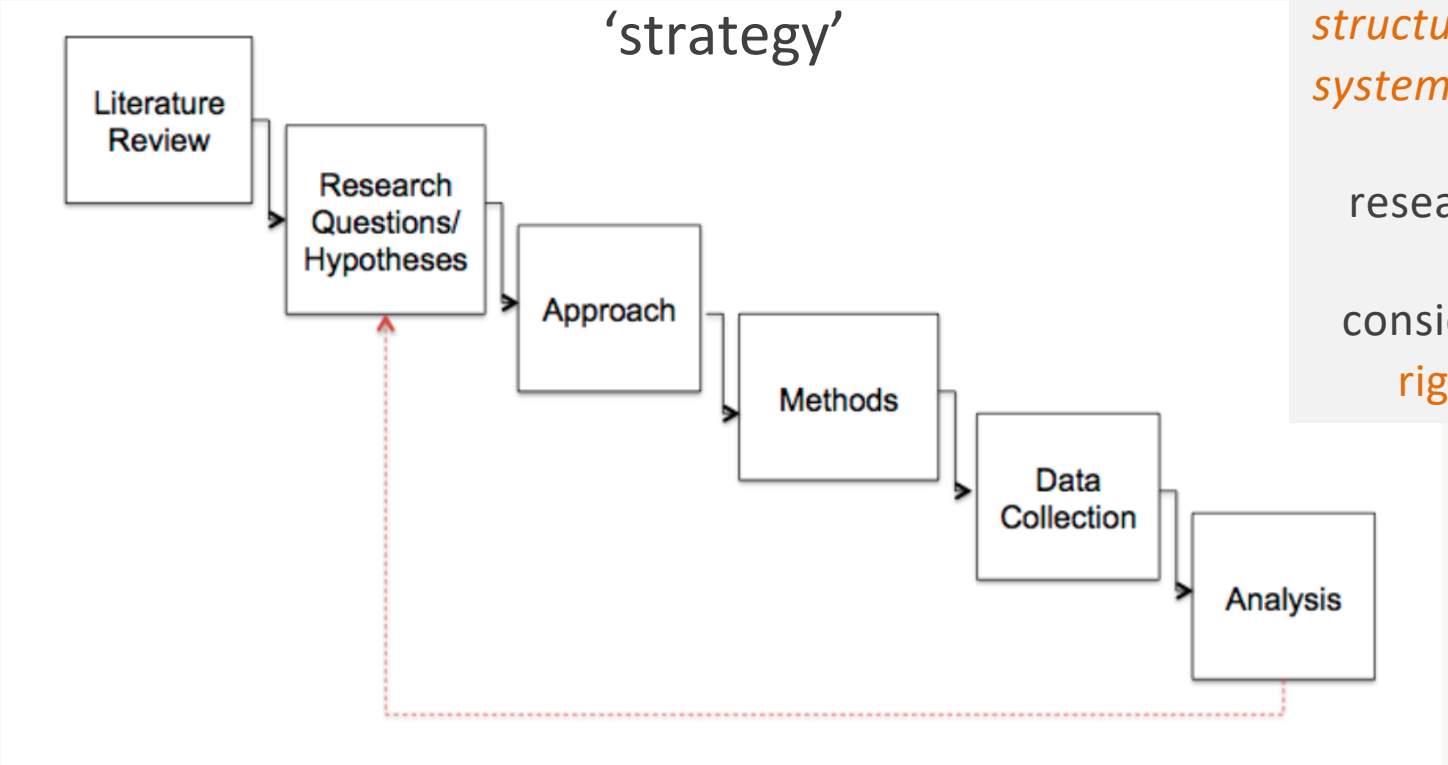
- – Briony J.Oates (2006: 4)

Research

- “creative work undertaken on a systematic basis in order to increase the stock of knowledge … and the use of this stock of knowledge to devise new applications.”

- The Frascati Manual - OECD (2002)

RESEARCH: PROCESS



Must be *structured* & *systematic* if your research is to be considered rigorous

SEARCH vs. REVIEW: Dawson (2009)

1. literature **SEARCH**

seeking, sorting, managing, digesting sources

have a system to search, collate & catalogue

2. literature **REVIEW**

"your written understanding, critical evaluation, conceptualisation and presentation of the material you have obtained"

Dawson, C. W. (2009). Projects in Computing and Information Systems: A Student's Guide (2nd ed). London: Addison Wesley.

SEARCH / ACCESS: SEARCH

"professional search" (Rugg & Petre, 2006)

comprehensive & systematic - a repeatable, defined strategy

i. what you search
ii. what you search it for
iii. how you search it

Rugg, G., & Petre, M. (2006). *A Gentle Guide to Research Methods*. McGraw-Hill International.

SEARCH / ACCESS: SEARCH

initial ideas – stimulate thinking with …

- text books, book chapters
- review articles
- introductions to journal articles

key papers – use databases to find …

- *seminal work* – paper that established the field
- *foundation article* – your research starting point

search & browse - serendipity

Rugg, G., & Petre, M. (2006). *A Gentle Guide to Research Methods*. McGraw-Hill International.

SEARCH / ACCESS: SEARCH SUMMARY

- *build*, *save* & *reuse* searches
- use a *thesaurus*
- keywords & concepts
- use *multiple databases*
- broad then narrow

✓ *record* search strategy / history

- take advantage of *tools* provided in databases

Rugg, G., & Petre, M. (2006). *A Gentle Guide to Research Methods*. McGraw-Hill International.

SEARCH / ACCESS: SEARCH

"keep in mind that some areas of intersection may not yield much literature, but if you keep playing around with ideas, concepts and variables, you are bound to build a solid literature base”

O’Leary, Z. (2004). *The Essential Guide to Doing Research*.
London: Sage Publications Ltd.

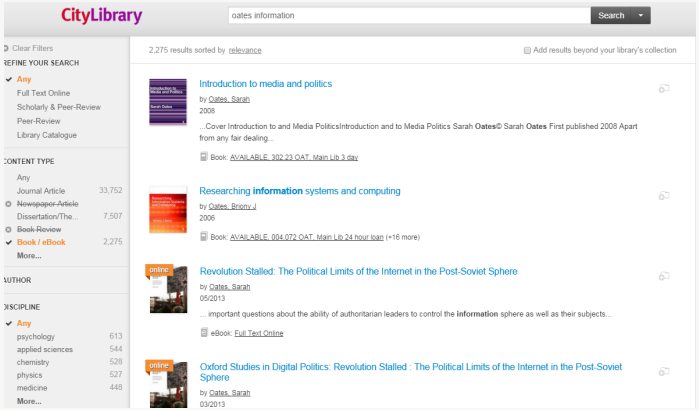
USING SOURCES

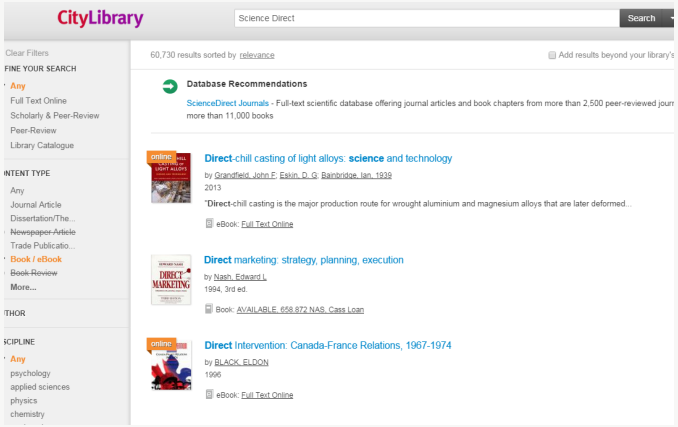
critical context / literature review

- for research questions
- to justify methods
- to inform analysis & conclusions

To find material in the Library

http://www.city.ac.uk/library/





Where to find peer –reviewed journals

Computing

ACM Portal
IEEE Explore
Lecture notes in computer science

Business

Business source complete
Nexis UK
Emerald Management
(Mintel)

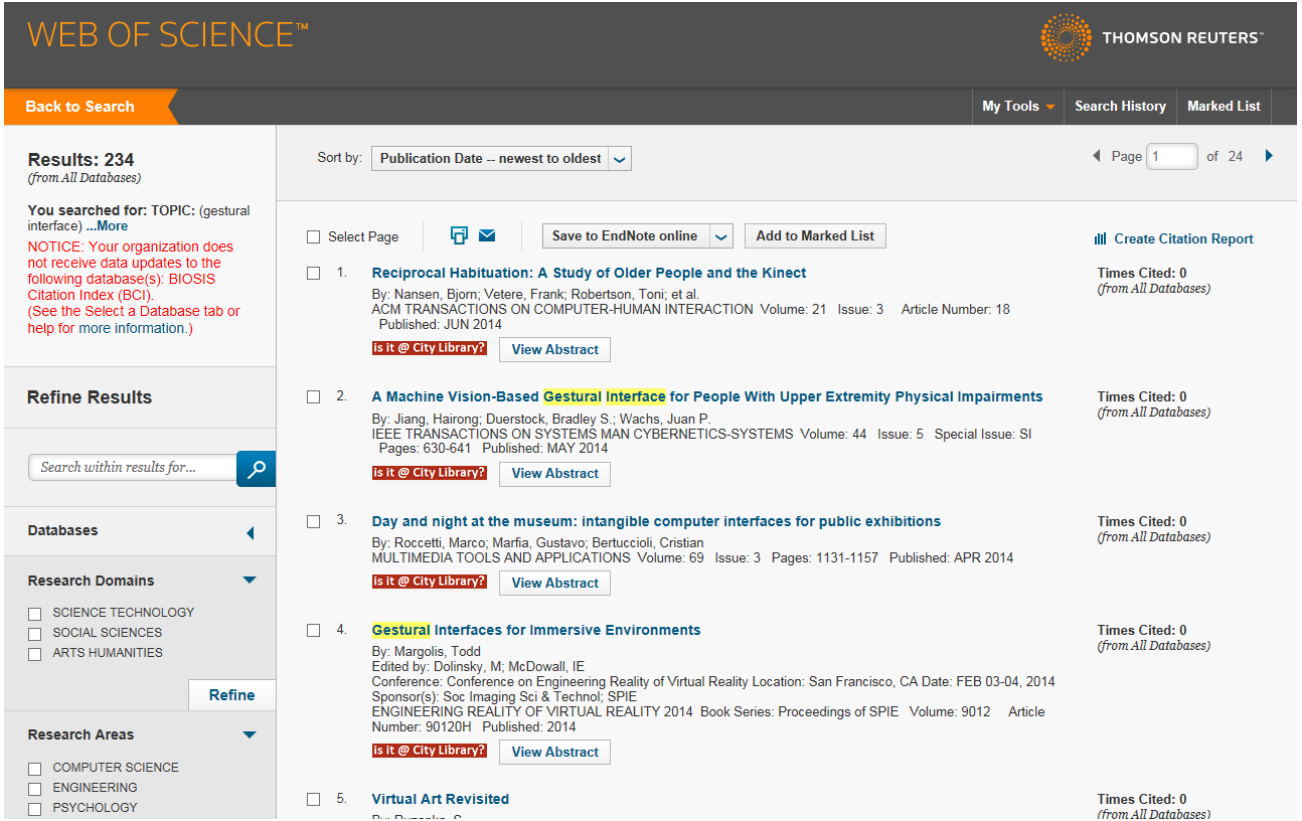
General

Science Direct
Web of Knowledge

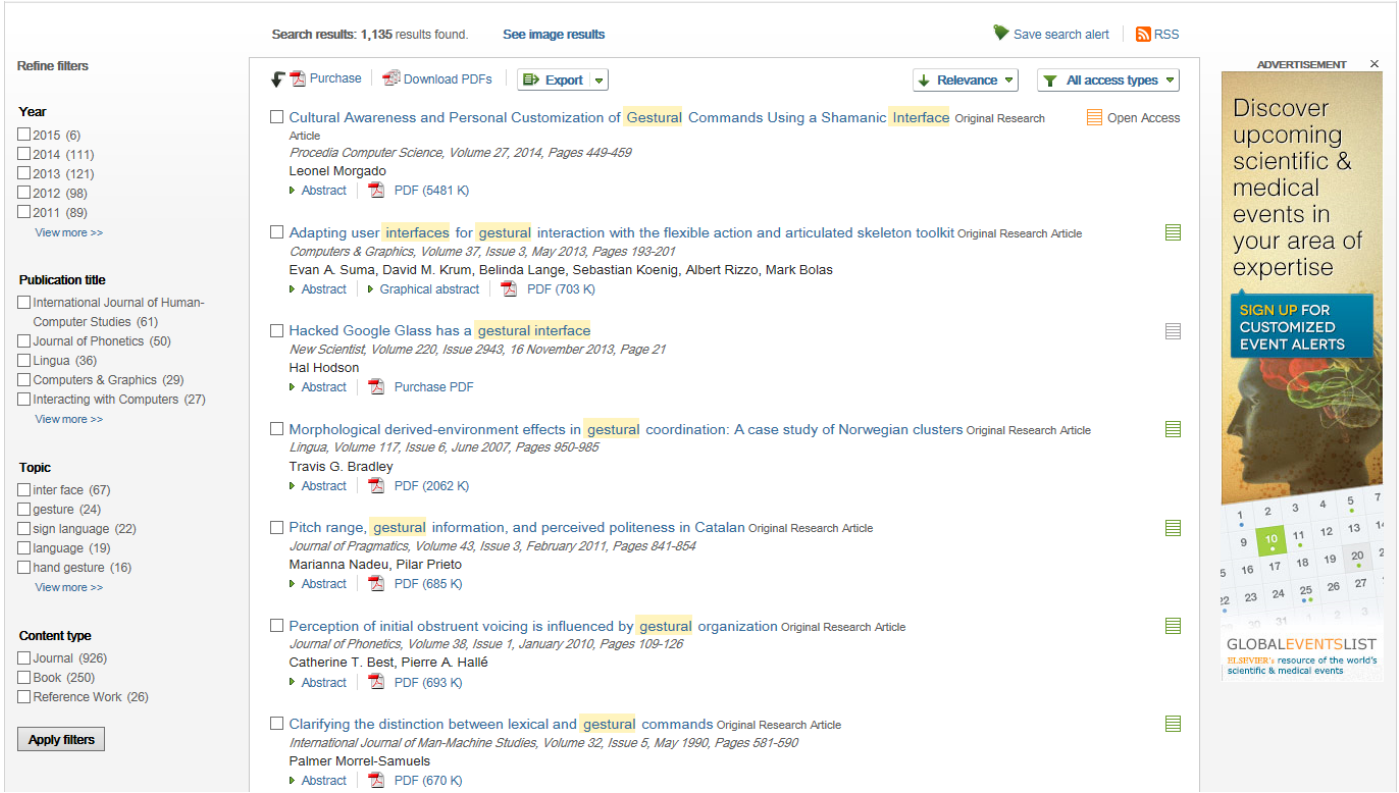
Health Sciences

Ovid

Web of Science



Science Direct



Search results: 1,135 results found. See image results

Save search alert | RSS

Refine filters

Year
- 2015 (6)
- 2014 (111)
- 2013 (121)
- 2012 (98)
- 2011 (89)

View more >>

Publication title
- International Journal of Human-Computer Studies (61)
- Journal of Phonetics (50)
- Lingua (36)
- Computers & Graphics (29)
- Interacting with Computers (27)

View more >>

Topic
- inter face (67)
- gesture (24)
- sign language (22)
- language (19)
- hand gesture (16)

View more >>

Content type
- Journal (926)
- Book (250)
- Reference Work (26)

Apply filters

Purchase | Download PDFs | Export | Relevance | All access types

Cultural Awareness and Personal Customization of Gestural Commands Using a Shamanic Interface Original Research Article — Open Access
Procedia Computer Science, Volume 27, 2014, Pages 449-459
Leonel Morgado
Abstract | PDF (5481 K)

Adapting user interfaces for gestural interaction with the flexible action and articulated skeleton toolkit Original Research Article
Computers & Graphics, Volume 37, Issue 3, May 2013, Pages 193-201
Evan A. Suma, David M. Krum, Belinda Lange, Sebastian Koenig, Albert Rizzo, Mark Bolas
Abstract | Graphical abstract | PDF (703 K)

Hacked Google Glass has a gestural interface
New Scientist, Volume 220, Issue 2943, 16 November 2013, Page 21
Hal Hodson
Abstract | Purchase PDF

Morphological derived-environment effects in gestural coordination: A case study of Norwegian clusters Original Research Article
Lingua, Volume 117, Issue 6, June 2007, Pages 950-985
Travis G. Bradley
Abstract | PDF (2062 K)

Pitch range, gestural information, and perceived politeness in Catalan Original Research Article
Journal of Pragmatics, Volume 43, Issue 3, February 2011, Pages 841-854
Marianna Nadeu, Pilar Prieto
Abstract | PDF (685 K)

Perception of initial obstruent voicing is influenced by gestural organization Original Research Article
Journal of Phonetics, Volume 38, Issue 1, January 2010, Pages 109-126
Catherine T. Best, Pierre A. Hallé
Abstract | PDF (693 K)

Clarifying the distinction between lexical and gestural commands Original Research Article
International Journal of Man-Machine Studies, Volume 32, Issue 5, May 1990, Pages 581-590
Palmer Morrel-Samuels
Abstract | PDF (670 K)

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ELSEVIER's resource of the world's scientific & medical events

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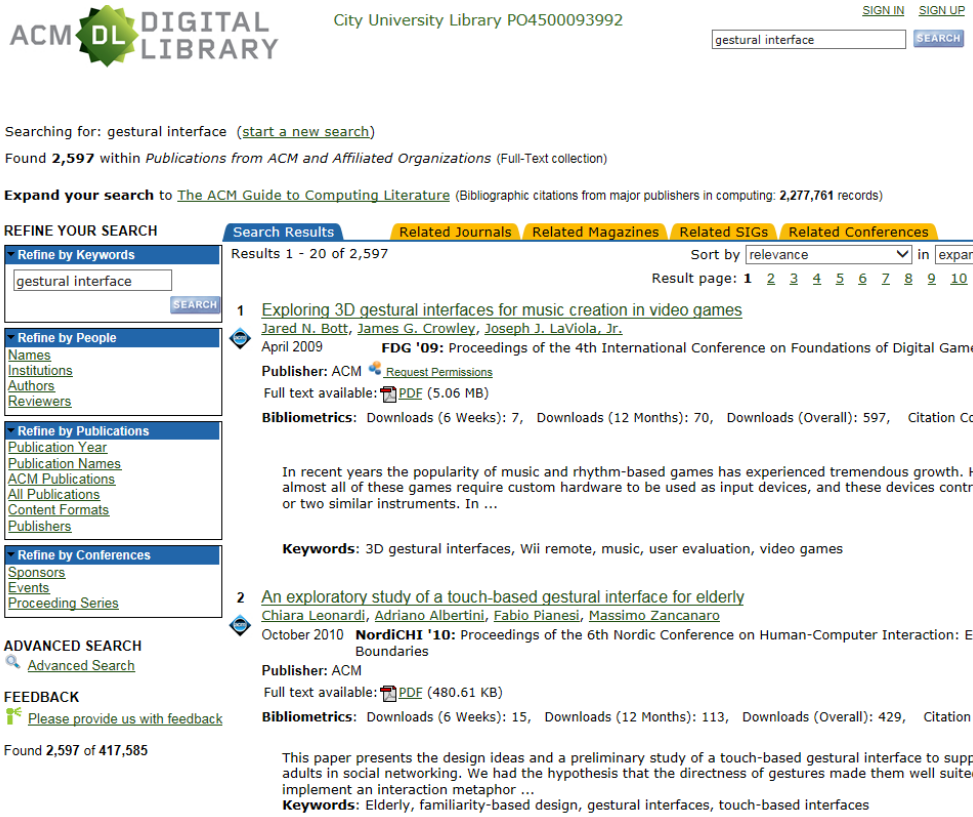


Keywords and Operators

AND &, + – combines terms. *Narrows results*

OR , – locates results containing either of the terms. Use ‘or’ for synonyms. Useful for US/UK Spellings. *Broadens results*

NOT – excludes terms. *Discards results that contain your excluded term (even if the results contain your chosen search term)*

Phrases – enclose in quotation marks “third way”

Proximity – WITH, SAME – locates results in same sentence or paragraph

Truncation – replaces multiple characters at the end of a word e.g. *pension** – finds pensioner, pensions, pensioned

Wild card – replaces a single character *organi?ation* – locates either spelling

e.g. wom?n finds woman and women

wom* finds both along with womb, wombat, womble etc.

Check help pages for the correct symbol. Can be * ! + $

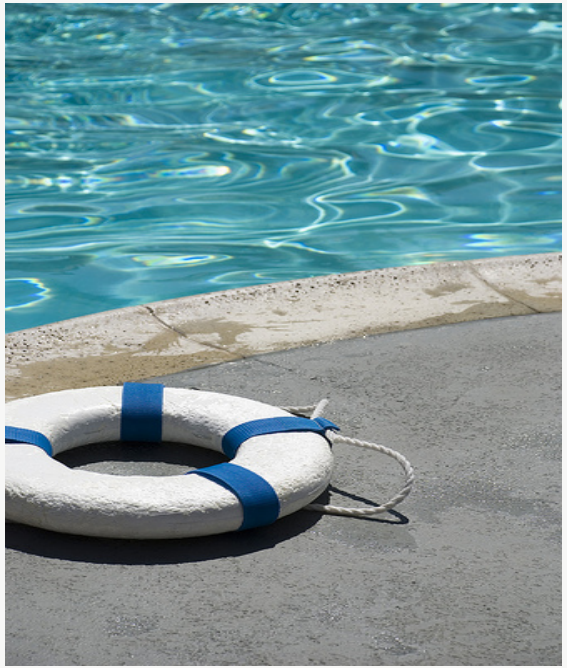
Subject headings & Thesauri

What Type of Material Is It?

- Journal articles, books, theses?
- Conference reports?
- Government reports?
- Very recent material?
- Historical?
- English language?

- UK or International?
- Peer reviewed or Practitioner, Trade, Commercial?
- Statistical Data?
- Archives?
- Web or other sources?
- Citation searching?

Where can I get more help?



Ask at Liberary service desks

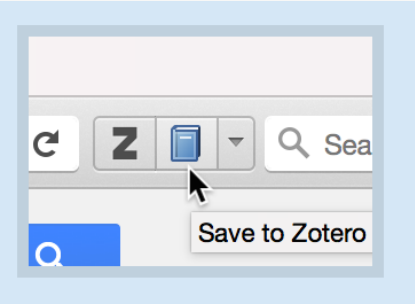
Email: libenquiries@city.ac.uk

Call: 020 7040 8191

Contact our Research Librarian for subject support or to book an individual training session v.price@city.ac.uk

Reference Management

Examples of Alternative Reference Managers (with bookmarklets to add to your web browser– collect as you surf the Web!)



Zotero (open source) https://www.zotero.org/

Mendeley (commercial) https://www.mendeley.com/

Always check citations and references manually– automated citation depends on metadata interoperability and it does not always work well. (There's also RefWorks…)

CITATION - ATTRIBUTION:

Good academic conduct – professionalism

References should be used to enable readers to access the original sources "as quickly and easily as possible" so that they can evaluate the quality of the arguments you present. (Pears & Shields, 2010)

"The fundamental principle is to acknowledge the work of others by providing citations to your references so that the reader can refer to these and other works if they want." (Pears & Shields, 2010)

Pears, R., & Shields, G. (2010). *Cite Them Right: The Essential Referencing Guide*. Palgrave Study Skills (8th ed.). Basingstoke: Palgrave MacMillan.

References vs Bibliography

- References: list of resources referenced in-text
- Bibliography: full list of related resources that informed your research even if you did not cite them directly

- At City and for your Proposal and Project, only References are required.
- You can build and keep your full annotated Bibliography using a Reference Manager such as Zotero or Mendeley

Reference List

- A complete list of all the sources used when creating a piece of work.
- This list includes information about the sources like the author, date of publication, title of the source and more.
- At the end of the document
- Organised alphabetically by author, unless there is no author then it is ordered by the source title, excluding articles such as a, an or the

Reference List

- If there are multiple works by the same author these are ordered by date, if the works are in the same year they are ordered alphabetically by the title and are allocated a letter (a,b,c etc) after the date
- Double spaced: there should be a full, blank line of space between each line of text
- Contains full references for all in-text references used

Main (re)Uses of Literature

- Paraphrases and summaries- what someone else says in your own words, with in-text citation, e.g. (Dawson 2015:111-12).
- Direct quotation between quotation marks followed by in-text citation
- **Never copy and text any length of third-party text without attributing and using quotation marks.**
- Paraphrases and direct quotes must be preceded and followed by your won text, putting the ideas in a context. You are storytelling with the aide of others.

Harvard Citation

- Simplest guide:

- https://www.mendeley.com/guides/harvard-citation-guide

EVALUATION: initial reading

"*Gut it*" (Oates, 2006)

i. abstract
ii. scan introduction / conclusions
iii. section headings, first / last sentences

… *then* decide whether to read

Make notes:

differentiate **copied text** from **paraphrasing & summaries**

EVALUATION – Dawson (2009)

Establish quality of work given your own understanding of the discipline:

- logical conclusions?
- what are contributions / products
- is context well described / relevant
- fact vs. unsubstantiated opinion
- how does paper relate to other literature in the field?

Dawson, C. W. (2009). Projects in Computing and Information Systems:
A Student's Guide (2nd ed). London: Addison Wesley.

SYNTHESIS: literature review

key objectives are to…

- inform readers of developments in the field
  rich learning experience
- establish your credibility
  relate your work to the field, to the work of others
- argue for relevance
  identify gaps and show significance

(O'Leary, 2004)

O'Leary, Z. (2004). *The Essential Guide to Doing Research*.
London: Sage Publications Ltd.

SYNTHESIS: critical perspective

a good literature review is…

- a coherent argument that defines and justifies a proposed study from a critical perspective
- selective and ordered
- not a 'sales catalogue'
- clearly related to research objectives
- a personal reaction to what has been written

Dawson *(2009, 2nd ed; p.107-8; 2015, 3rd ed, p. 111-12)*

Dawson, C. W. (2009). Projects in Computing and Information Systems: A Student's Guide (2nd ed). London: Addison Wesley.

SYNTHESIS: suggestions

- read a few literature reviews in the literature
- make critical annotations as you read
  develop themes and relate articles – MindMap?
- develop a structure as you read
  this may change / iterate
- write purposefully
  you need an agenda, you are storytelling
- use the literature to substantiate / back up this story

(O'Leary, 2004)

O'Leary, Z. (2004). *The Essential Guide to Doing Research*.
London: Sage Publications Ltd.

MORE RESOURCES

- Take a look at the StudyWell Resources at City
- Encouraging positive study skills by students and staff
- http://www.city.ac.uk/current-students/academic/studywell

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