



INM373 RESEARCH METHODS & PROFESSIONAL ISSUES

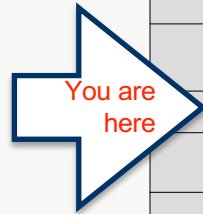
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business and the professions

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	Quantitative 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)

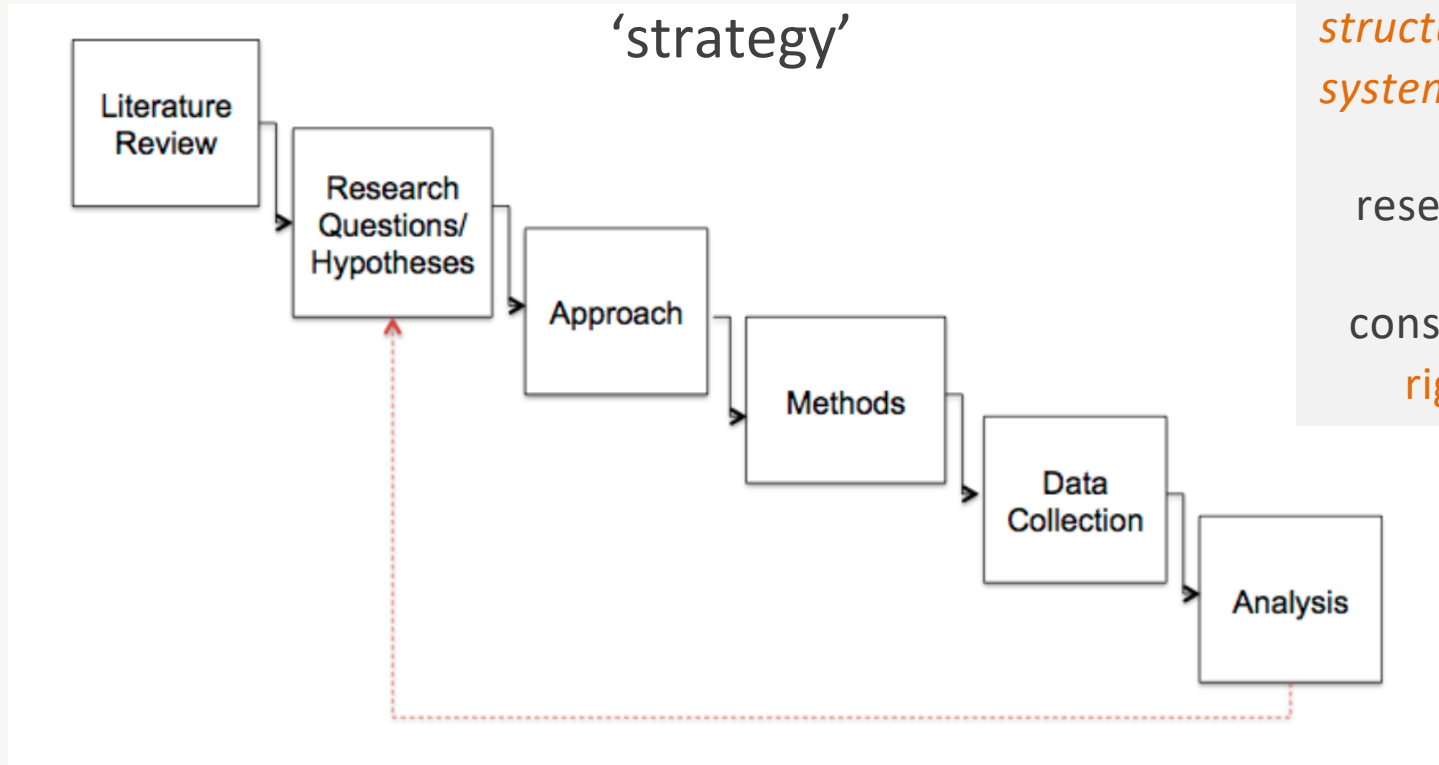
Research

- “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

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

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"

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/>

CityLibrary oates information Search

2,275 results sorted by **relevance** Add results beyond your library's collection

REFINE YOUR SEARCH

- Any
- Full Text Online
- Scholarly & Peer-Review
- Peer-Review
- Library Catalogue

CONTENT TYPE

- Any
- Journal Article 33,752
- Newspaper-Article 1,507
- Book-Review 2,275
- Book / eBook
- More...

W/THOR

DISCIPLINE

- Any
- psychology 613
- applied sciences 544
- chemistry 529
- physics 527
- medicine 440
- More...

Introduction to media and politics
by Oates, Sarah
2008
... Cover Introduction to and Media Politics Introduction to and Media Politics Sarah Oates © Sarah Oates First published 2008 Apart from any fair dealing...
Book: AVAILABLE 300.23 OAT, Main Lib 3 day

Researching information systems and computing
by Oates, Brian J
2008
Book: AVAILABLE 004.072 OAT, Main Lib 24 hour loan (+16 more)

Revolution Stalled: The Political Limits of the Internet in the Post-Soviet Sphere
by Oates, Sarah
05/2013
... important questions about the ability of authoritarian leaders to control the information sphere as well as their subjects...
eBook: Full Text Online

Oxford Studies in Digital Politics: Revolution Stalled: The Political Limits of the Internet in the Post-Soviet Sphere
by Oates, Sarah
05/2013

CityLibrary Science Direct Search

60,730 results sorted by **relevance** Add results beyond your library's collection

REFINE YOUR SEARCH

- Any
- Full Text Online
- Scholarly & Peer-Review
- Peer-Review
- Library Catalogue

CONTENT TYPE

- Any
- Journal Article
- Dissertation/The...
- Newspaper-Article
- Trade Publication...
- Book / eBook
- Book-Review
- More...

W/THOR

DISCIPLINE

- Any
- psychology
- applied sciences
- physics
- chemistry

Database Recommendations
ScienceDirect Journals - Full-text scientific database offering journal articles and book chapters from more than 2,500 peer-reviewed journals more than 11,000 books

Direct-chill casting of light alloys: science and technology
by Grandfield, John F, Eskin, D. G, Barbrook, Ian, 1939
2013
Direct-chill casting is the major production route for wrought aluminium and magnesium alloys that are later deformed...
eBook: Full Text Online

Direct marketing: strategy, planning, execution
by Black, Edward L
1994, 3rd ed.
Book: AVAILABLE 658.872 NAS, Cass Lib

Direct Intervention: Canada-France Relations, 1967-1974
by BLACK, ELDON
1995
eBook: Full Text Online

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

WEB OF SCIENCE™

 THOMSON REUTERS™

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Results: 234
(from All Databases)

You searched for: TOPIC: (gestural interface) [More](#)
NOTICE: Your organization does not receive data updates to the following database(s): BIOSIS Citation Index (BCI) (See the Select a Database tab or help for more information.)

Refine Results

Databases

Research Domains

☐ SCIENCE TECHNOLOGY
☐ SOCIAL SCIENCES
☐ ARTS HUMANITIES

[Refine](#)



Research Areas

☐ COMPUTER SCIENCE
☐ ENGINEERING
☐ PSYCHOLOGY

Sort by: **Publication Date -- newest to oldest**

Page 1 of 24

☐ Select Page

[Save to EndNote online](#)

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☐ 1. **Reciprocal Habituation: A Study of Older People and the Kinect**
By: Nansen, Bjorn; Vetere, Frank; Robertson, Toni; et al
ACM TRANSACTIONS ON COMPUTER-HUMAN INTERACTION Volume: 21 Issue: 3 Article Number: 18
Published: JUN 2014
[Is it @ City Library?](#) [View Abstract](#)
Times Cited: 0
(from All Databases)

☐ 2. **A Machine Vision-Based Gestural Interface for People With Upper Extremity Physical Impairments**
By: Jiang, Hairong; Duerstock, Bradley S.; Wachs, Juan P.
IEEE TRANSACTIONS ON SYSTEMS MAN CYBERNETICS-SYSTEMS Volume: 44 Issue: 5 Special Issue: SI
Pages: 630-641 Published: MAY 2014
[Is it @ City Library?](#) [View Abstract](#)
Times Cited: 0
(from All Databases)

☐ 3. **Day and night at the museum: intangible computer interfaces for public exhibitions**
By: Rocchetti, Marco; Marfia, Gustavo; Bertuccioli, Cristian
MULTIMEDIA TOOLS AND APPLICATIONS Volume: 69 Issue: 3 Pages: 1131-1157 Published: APR 2014
[Is it @ City Library?](#) [View Abstract](#)
Times Cited: 0
(from All Databases)

☐ 4. **Gestural Interfaces for Immersive Environments**
By: Margolis, Todd
Edited by: Dolinsky, M; McDowall, IE
Conference: Conference on Engineering Reality of Virtual Reality Location: San Francisco, CA Date: FEB 03-04, 2014
Sponsor(s): Soc Imaging Sci & Technol; SPIE
ENGINEERING REALITY OF VIRTUAL REALITY 2014 Book Series: Proceedings of SPIE Volume: 9012 Article Number: 90120H Published: 2014
[Is it @ City Library?](#) [View Abstract](#)
Times Cited: 0
(from All Databases)

☐ 5. **Virtual Art Revisited**
By: ...
Times Cited: 0
(from All Databases)

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)

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Publication title

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

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Topic

- ☐ Inter face (67)
- ☐ gesture (24)
- ☐ sign language (22)
- ☐ language (19)
- ☐ hand gesture (16)

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Content type

- ☐ Journal (926)
- ☐ Book (250)
- ☐ Reference Work (26)

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☐ Cultural Awareness and Personal Customization of **Gestural** Commands Using a Shamanic **Interface** Original Research [Open Access](#)

Article
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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12	23	24	25	26	27
8	9	31	1	2	3

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AN ONLINE resource of the world's scientific & medical events

ACM digital library



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gestural interface

Searching for: gestural interface ([start a new search](#))

Found **2,597** within *Publications from ACM and Affiliated Organizations* (Full-Text collection)

Expand your search to [The ACM Guide to Computing Literature](#) (Bibliographic citations from major publishers in computing: **2,277,761** records)

REFINE YOUR SEARCH

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gestural interface

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Result page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#) [>>](#)

- 1 [Exploring 3D gestural interfaces for music creation in video games](#)
[Jared N. Bott, James G. Crowley, Joseph J. LaViola, Jr.](#)
April 2009 **FDG '09**: Proceedings of the 4th International Conference on Foundations of Digital Games
Publisher: ACM [Request Permissions](#)
Full text available: PDF (5.06 MB)
Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 70, Downloads (Overall): 597, Citation Count: 10

In recent years the popularity of music and rhythm-based games has experienced tremendous growth. However almost all of these games require custom hardware to be used as input devices, and these devices control only one or two similar instruments. In ...

Keywords: 3D gestural interfaces, Wii remote, music, user evaluation, video games

- 2 [An exploratory study of a touch-based gestural interface for elderly](#)
[Chiara Leonardi, Adriano Albertini, Fabio Pianesi, Massimo Zancanaro](#)
October 2010 **NordiCHI '10**: Proceedings of the 6th Nordic Conference on Human-Computer Interaction: Extending Boundaries
Publisher: ACM
Full text available: PDF (480.61 KB)
Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 113, Downloads (Overall): 429, Citation Count: 7

This paper presents the design ideas and a preliminary study of a touch-based gestural interface to support older adults in social networking. We had the hypothesis that the directness of gestures made them well suited to implement an interaction metaphor ...

Keywords: Elderly, familiarity-based design, gestural interfaces, touch-based interfaces

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?

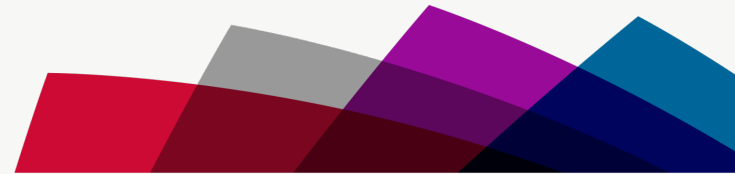


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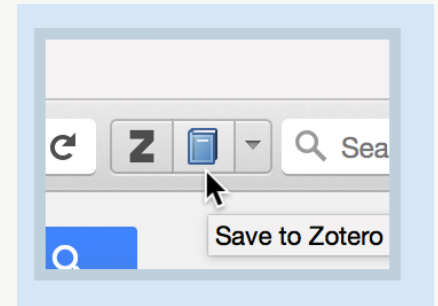


Reference Management

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 own text, putting the ideas in a context. You are storytelling with the aid 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?

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)

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>

- This deck of slides contains content originally co-curated and co-created by Jason Dykes, Verena Price and Ernesto Priego.
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