

Searching for academic information

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1. Introduction: Library Support for Researcher

As a UOC researcher, you can access the specific section of the library website which provides resources and services to support research at the UOC:

<http://biblioteca.uoc.edu/en/research>.

Have a look at the different contents, which are structured according to research cycle, paying special attention to the first section dedicated to information searches:



- Information Search
- Information Management
- Publication Support
- Dissemination Support
- Evaluation Support



Video. See in the web

Library's Welcome Kit for New Researchers

30 min Recommended minimum required time

<p>ORCID ID, Researcher Identifier</p> <p> 2 min</p>	<p>Library's Welcome Kit for New Researchers</p>	<p>The UOC Library with the research</p> <p>Library support to researchers</p> <p> 3 min</p>	
<p>GIR: Keep your CV up-to-date</p> <p> 3 min</p>	<p>Bibliometrics: What we publish at the UOC</p> <p> 3 min</p>	<p>Benefits of publishing in Open access at the UOC</p> <p> 10 min</p>	<p>Mendeley: Reference Manager</p> <p> 5 min</p> <p>Recommendations for author signatures on scientific output at the UOC</p> <p> 4 min</p>
<p>The Library Replies</p>			

Go to the [Library's Welcome Kit for New Researchers](#) to access all the resources.

2. Search in the Library

2.1. How to conduct your information search

The library provides different sources for conducting an information search. In this section, you will find information about the library's general search engine and other sources, such as the main bibliometric databases and a selection of specific sources for your discipline (for each UOC doctorate programme).

But firstly, we will explain the steps to bear in mind when conducting an information search, what aspects you need to take into account before starting and how to develop the best search techniques, as well as some other tips to make you more efficient when searching for and evaluating information.

2.1.1. Main steps

Specify the need for information

A good starting point is to clarify what the subject and keywords that describe your topic are. You should also think about other important aspects to refine your search, such as what kind of information you need, the level of depth or the time required.

Select the information sources

Depending upon the type of information needed you should select the most appropriate source of information. For example: an academic search engine, for an initial approach to your topic; a specialized database, for scientific articles or journals; a statistical database, for statistical data; etc.

Perform the search

At this stage, once you have accessed a source of information, you need to employ a good search strategy in order to retrieve the most relevant results. To achieve this, you should use the search operators (to combine keywords in the search box) and filters (to be selected from the query form of the advanced search and from the results screen). Given the importance of this aspect, we will expand on it below (section 2.1.3. Search techniques).

Evaluate the results

Once you have a list of results, you should critically evaluate them. We recommend you use the **PROMPT** mnemonic (Presentation, Relevance, Objectivity, Method, Provenance, Timeliness) as it will yield an advanced and critical evaluation of information. Have a look at this [video about evaluating information](#) from the UOC Library.

All the aspects explained above are illustrated and summarized in the infographic *How to improve your searches*, elaborated by the UOC Library.

How to improve your searches



<http://biblioteca.uoc.edu/sites/default/files/infography-improve-your-searches.pdf>

2.1.2. Before you start your search

Before you start your search, you need to plan and conduct your literature search.

1. **Define your terms:** you should clarify your topic or research project. What is your **research question**? What are the key concepts?
2. **Use your research question** to help you identify **keywords**. Brainstorm or mind map all the words that describe the subject you're looking for. The terminology used in your discipline or research area will help you identify the most effective terms, as will looking for background information on key areas within your topic.
3. **Think about synonyms** and other words commonly used for discussing your topic (i.e., alternative keywords). Compile a list of keywords and synonyms which will be useful in your search strategies.
4. **Search creatively.** You now need to identify all the relevant information sources. These may include the library and its electronic databases and journals, as well as other academic resources.

2.1.3. Developing your search strategy for electronic databases

A database is a compilation of articles, conference proceedings, book chapters, theses, reports, etc., from journals and other academic sources. You can quickly search a very large number of articles for specific topics, titles or authors at once. Many databases have the full-text articles and they can be general or interdisciplinary and provide broad coverage of many topics, while others are subject-specific and cover one field in depth.

Successful searches in databases are not random; rather, you need to create search strategies to greatly improve the quality and accuracy of your results. For a precise search you need to use a variety of techniques, ranging from Boolean operators to truncation searching. More details about different search techniques are provided below.

Search by keywords

We recommend that for a first search, when you don't know a specific title, author or journal, you start searching by using some key concepts or terms rather than typing an entire sentence in the search box. This technique lets you explore everything the database has about the topic of interest and lets you see how the database works.

Example

If your topic is:

the correlation between innate competencies in infants and the development of learning in childhood

don't just type this into the database search box because the specialized dataset doesn't behave this way. Instead, identify keywords and some synonyms, such as infant(s), baby, babies, child, children, childhood, innate, natural, inborn, competencies, capacities, abilities, learning, education, training, etc.

Think about your topic and try to brainstorm as many relevant keywords as possible. A dictionary can help you find synonyms for some terms. Also, reading about your topic in a basic source, such as a textbook or an encyclopaedia article, can help you think of more keywords.

Using Operators AND, OR and NOT

Once you have identified the main keywords; you should combine and establish relationships between them. In the academic databases you can do so by using the Boolean operators AND, OR and NOT. These form the basis of Boolean algebra and database logic: conjunction (and), disjunction (or) and negation (not). They are useful for connecting your search words together to either narrow or broaden your set of results.

Here you have some examples:

The Boolean operators

AND	OR	NOT
each result contains all the search terms	each result contains least one of the search terms	the results exclude one of the search terms
<i>Travel AND Europe</i>	<i>College OR university</i>	<i>Mustang NOT animal</i>
It retrieves results about travelling on the Old Continent	You can view contents with <i>college</i> , <i>university</i> and both terms together	You will get results about the car and not about the horse

Boolean operators can also be used as in mathematics; that is, adding brackets to define the order in which the terms must be interpreted, since the search engines and databases read the words in brackets first.

For example

(children OR adolescents) AND learning

The database will first interpret that you only need information about children or adolescents and will then relate these results with learning.

More information about booleans: <http://biblioteca.uoc.edu/en/resources/boolean-operators>

Proximity operators

Many databases allow you to specify that the words you are searching for are within a certain proximity of each other. Proximity operators make your search more precise. They can vary depending on the database (check the Help to confirm this) but some of the most common are the following:

- **w# = with**

It specifies that words appear in the order you type them in, you substitute the # with a number of words that may appear in between. If no number is given, then it specifies an exact phrase.

Example

digital w humanities (searches for the phrase digital humanities)

Eugene w2 Garfield (retrieves Eugene Garfield, Eugene Elin Garfield, etc.)

- **n# = near**

It specifies that the words may appear in any order; substitute the # with a number of words that may appear in between.

Example

learning n3 process (retrieves process of learning, learning process, etc.)

Hint: refer to the database Help screen to find out how to search by phrases, or to specify proximity or which truncations are allowed.

Truncations

A Truncated search consists in removing the suffix of a word and replacing it with a wildcard character, usually an asterisk (*) or a question mark (?). However, each database has its own truncation character system, so we recommend checking this information in the help option.

This kind of search technique is useful when searching for the singular and plural form of a word as well as for terms that can be reduced to a common stem. For instance:

Example

Climat* → finds climate, climates, climatic, climatology, etc

Transfer?able → finds transferable and transferable

Phrase searching

Phrase searching helps to refine your search by allowing you to look for words that appear together in a phrase, in the order specified. This type of search is supported by most databases. The most common method of phrase searching is using quotation marks or quotes around search words. For instance, "**Climate change**".

Databases often have an option or button specifying that words are searched as a phrase to look for phrases, as a kind of limiter in the advanced search.

Example: "Climate change"

will find documents about climate change, with the words in that specific order and together, but not those which contain the phrase *change in the climate* or *climate research about change environment*.

Hint: refer to the database Help screen to find out how to search by phrases or to specify proximity or what the truncations symbols used in that specific source are.

Subject searching

Most of the specialized databases commonly use a controlled language, a list of pre-established terms that have been devised by the creators of the source in order to describe the documents included. These terms are called *descriptors* or *subject terms* and they are similar to the tags which are used in social media.

In some databases, the set of accepted descriptors or subject terms is known as a **Thesaurus**.

Tip! Before devising your search strategy you should check whether the selected database has an online thesaurus. If so, you can browse there for subjects that match your topic, include these terms in the search box and select "subject" from the pop-up menu (combined with Boolean operators, if necessary). **This strategy will look only for documents that include those terms as a subject** (i.e., documents that deal specifically with this topic), ignoring any where the terms appear throughout the full text but have an insignificant meaning. This helps you to retrieve more accurate items and filter out any irrelevant documents.

For instance, a search of articles by

the **Thesaurus subject term "Technology interaction"** and the **Subject option** chosen in the query for will retrieve all the articles specifically about technology interaction (as a matter or subject), but not those

which include the term “technology” and/or “interaction” in some part of the record (terms separated throughout the full text or as part of the publisher’s name, etc.).

Another way to find subject headings, instead of checking the Thesaurus or if the database doesn’t have one, is as follows:

1. Start with a keyword search, using words/phrases that describe your topic.
2. Select 2 or 3 results that are relevant and look at the “Subject” or “Descriptor” field to check what the controlled term used in that database is.
3. Redo your search by using those terms (selecting “Subject” from the pop-up menu).
4. You will see that your results are more precise than your initial keyword search.

Remember: literature searching is an iterative process; you may need to add or remove keywords and apply filters to improve your search strategy.

Citation searching

This is a search strategy to find articles that have been referenced by other publications which are related to your topic of interest.

Citation searching doesn’t substitute the keyword or subject term searching but is a complementary technique which is useful:

- To find more papers on the same subject, by tracing citations backward (other previous relevant works) or forward (recent works that continue using that perspective or methodology).
- To know how an idea or innovation has earlier been confirmed or rejected.
- Because this kind of search relies on the authors (and their subject knowledge) to provide other pertinent works through their reference lists. In this sense, you can focus on what the scholarly community has determined to be ‘useful’ in that expert field.
- Because you can avoid having to find the most appropriate terms to search for an article, since you are not searching based on words.
- Citation searching also allows you to focus on what the scholarly community has determined to be ‘useful’ based on how much it has been cited.

A number of databases allow citation searching, including Web of Science (WoS), the original citation index tool. The following video shows how to conduct a cited reference search:

Web of Science - How to do a Cited Reference Search

Select	Cited Author	Cited Work [Expand Titles]	Title [Hide Expanded Titles]	Year	Volume	Issue	Page	Identifier	Citing Articles
<input type="checkbox"/>	Higgins, JPT + [Show all authors]	BRIT MED J	Measuring inconsistency in meta-analyses	2003	327	7414	557	DOI: 10.1136/bmj.327.7414.557	18482
<input type="checkbox"/>	Higgins, JP + [Show all authors]	BMJ-BRIT MED J	Measuring inconsistency in meta-analyses	2003	327	7414	557	OTHER: 12958120	49
<input type="checkbox"/>	Higgins, J.ThompsonSG + [Show all authors]	BMJ-BRIT MED J	Measuring inconsistency in meta-analyses	2003	327	7414	557		10
<input type="checkbox"/>	Higgins, JP + [Show all authors]	BMJ-BRIT MED J	Measuring inconsistency in meta-analyses	2003	327	7414	557	OTHER: 12958120	5
<input type="checkbox"/>	Higgins, J. R. T. + [Show all authors]	BMJ	Measuring inconsistency in meta-analyses URL: http://www.bmj.com/lookup/doi/10.1136/bmj.327.7414.557	2003	327				5
<input type="checkbox"/>	HIGGINS JPT	BMJ-BRIT MED J		2003	327		577		5
<input type="checkbox"/>	HIGGINS, JPT + [Show all authors]	BMJ-BRIT MED J	Measuring inconsistency in meta-analyses	2003	327		4		3
<input type="checkbox"/>	Higgins, JP + [Show all authors]	BMJ-BRIT MED J	Measuring inconsistency in meta-analyses	2003	327		57		3
<input type="checkbox"/>	Higgins, T + [Show all authors]	BMJ-BRIT MED J	Measuring inconsistencies in metaanalysis	2003	327	414	557	OTHER: 12958120	3
<input type="checkbox"/>	Higgins, JP + [Show all authors]	BMJ-BRIT MED J	Measuring inconsistency in meta-analyses	2003	327		557		3
<input type="checkbox"/>	Altman, D., Higgins, J + [Show all authors]	BMJ	Measuring inconsistency in metaanalysis	2003	327	7414	557		1

Keywords vs subjects

- **Keyword searching:** you use **natural language words** to describe your topic and the database looks for these terms anywhere in the record (title, summary or other fields). It is therefore a good **search strategy to start with** but it may return **too many or too few results** and these may be irrelevant.
- **Subject searching:** you use **pre-defined vocabulary** terms to describe the subject of your topic and the database looks for these terms only in the subject heading or descriptor field. Therefore, they let you conduct a more **precise search**, by focusing on the subject of the items, and **results** are usually **very relevant** to the topic.

2.1.4. Refining your search and evaluating your results

Once you have obtained results from your search, you should filter them, in order to refine your search, and evaluate them, to select the relevant and qualitative ones.

Search limiters or filters

Too many results? → Apply some filters to refine your search

Too few? → Revise your strategy

Search limiters option helps you obtain more refined results, filtering by characteristics such as language, date, format, etc., so you don't need to spend time checking irrelevant documents. Therefore, each limiter you use will refine and reduce the number of results you get and there is a wide range of possibilities available, such as:

- Type of document (article, book, conference proceeding, etc.)
- Language (English, Spanish, etc.)
- Period of time (a specific year, during the last five years, etc.)
- Formats (video, image, text, etc.)
- Others

And some other more specific limiters:

- Name of journal, name of database, peer-review system, etc., in a scientific database
- Resolution, size, snapshot, etc., in an image or photography database
- Tribunal, competent body, etc. in a jurisprudence database
- Level of education, audience, type of learning materials, etc., in an educational database

These search limiters are available in the query form (advanced search option), to filter before executing the search, or also in the results screen (normally, on the side of the screen), allowing you to refine the search after retrieving the information.

Here you have a visual example of filters.



Go to the resource

Evaluate the information obtained

Once you have retrieved the information, you have to evaluate the results. This is a key academic skill that you will need to demonstrate in your research. In this sense, the first thing you should assure is that the results are relevant, of quality and trustworthy.

Some basic criteria to evaluate the information obtained from a search are the following (Ayuso García & Martínez Navarro, 2006; CRAAP test):

Accuracy: the reliability, truthfulness and correctness of the information

- Is the information supported by evidence or is it balanced/biased?
- Can you determine if the information is peer-reviewed?
- Can you verify the information in another reliable source?
- Are the spelling, grammar and characters adequate and without errors?
- Does the author provide references for quotations and data?

Authority: the source of the information

- Can you determine who the author/creator is?
- What are their credentials (education, affiliation, experience, etc.)?
- Is the author affiliated to a credible institution (for instance, a university or research centre)?
- Who is the publisher or sponsor of the document? Are they reputable?

Currency: the timeliness of the information

- Based on your topic, is the information current enough?
- Can you identify the date on which the document was written/updated?
- May the information have been replaced by new facts/theories?

Objectivity: think critically about the positions represented

- What is the intent of the information (to persuade, to sell you something, etc.)?
- Is the information based upon research or the author's opinion?
- Is there any evidence that the author is advocating for a particular position or expressing a personal point of view? Does the information present a balanced view?
- Based on the writing style, who is the intended audience?

Purpose: the reason the information exists

- What is the intent of the information (to persuade, to sell you something, etc.)?
- Based on the writing style, who is the intended audience?

Relevancy: matching needs

- Does the information meet the requirements of your research?
- Is the information of an appropriate level for your purposes?
- Is the information related to the topic being covered and relevant in terms of geographic location, chronology and any other factors important for you?

Take a look at this video, created by the UOC Library, to help develop and improve your evaluation skills.



*It must be relevant, of good
quality and trustworthy*

You can check the following video “Refining your Search”, from the University of Leicester, available to watch in Youtube.

2.2. Resources for performing an information search

2.2.1. Search engines and e-platforms

The library offers several search platforms where you can find digital academic resources, such as the global search engine (situated at the top of the library website), and those for finding databases, e-journals and e-books.

Global Search Engine (homepage)

We recommend you use the global search engine for an initial exploration of a topic. You can type some keywords in the search box and then filter the results according to your information needs. Since the global search engine looks for information in the

whole library collection, you can get different types of documents: books (both physical and electronic), articles, news, proceedings, etc.

Remember to use the **Boolean operators AND, OR and NOT** (they must be written in capital letters) to help you refine your results, since they let you create personalized search formulas by using a combination of terms. After performing a search, you can refine the results using the **ten filters** available.

Recommendations/Tips

Have a look at this [useful guide about the library's search engine](#) to find out which content, sources and resources are available and how you can get the most out of them. In addition, you can follow some easy steps if you need to search for a specific book or article in the library collection.

Example

Here you have a [practical example](#) of a student from the Master's Degree in Education and ICT who is looking for information for her final project on the potential of new e-learning tools such as games, wikis and MOOCs.

Find a journal or article: Use this visual resource, which will help you find a specific article or a journal title in the search engine.

Warning: You should take into account that some resources may not appear in the search engine's results, even though the library is subscribed to them, because of technical incompatibilities or because a data transfer agreement has not been signed with the publisher. Further details can be found [here](#).

E-Resources

Access to leading publishers' platforms and databases to which the library has subscribed and via which it is possible to look at articles, journals, preprints, conference proceedings, etc.

You should select your subject area from the menu bar to get all the available databases about that area.

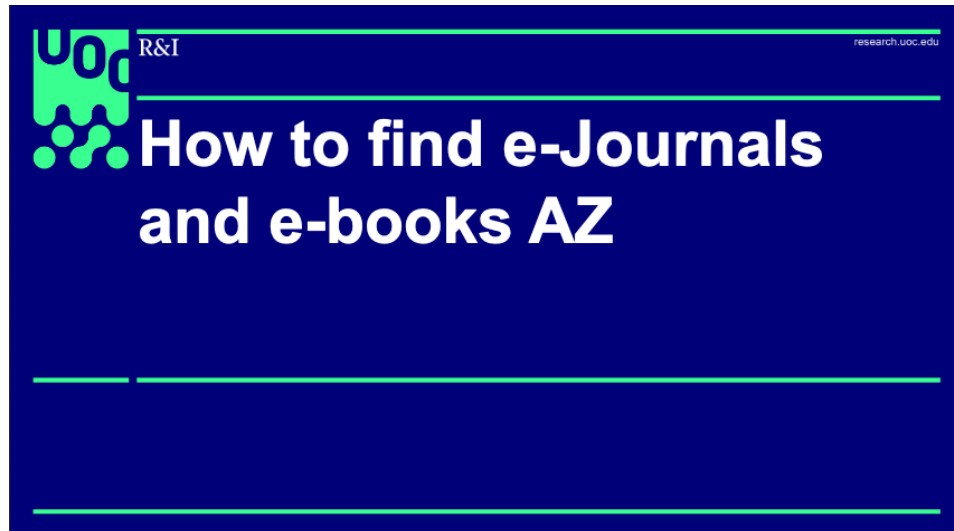
If you have difficulty accessing an electronic resource, [follow these steps](#).

E-Journals and E-books A-Z

Access to the UOC Library's full collection of e-journals and e-books. This is useful when you know the title of the e-journal or e-book you're looking for. There are two ways to find them:

- By searching the A-Z list.
- By searching for a word from the title.

You can check the resource below about how to find e-books and e-journals in the library. It is also available at the UOC's institutional repository, O2:
<http://hdl.handle.net/10609/115129>.



If you still can't find the article you are looking for, you can use the Electronic Documents Supply Service (EDS). If you have any questions, please check these FAQs about the EDS service.

2.2.2. Research databases

In the Search engines and e-platforms section, we define the concept of "bibliographic databases". This section covers thematic content databases, or those which aim to collate all of the possible literature on a single area of knowledge.

Document or bibliographic databases contain information on documents. This usually means references to documents, but many also contain the full text, usually as PDFs.



"Databases contain relevant, up-to-date, accurate, proven, high-quality information."

These databases are created by private companies (Chemical Abstracts Service) and public organizations (National Library of Medicine, USA), which can distribute and market them directly via the internet or through intermediary companies such as EBSCO or ProQuest. The majority are products that must be paid for, although some – especially public ones – are distributed free of charge. Universities and research centres often subscribe to databases requiring payment so that they can be used by their communities of researchers.

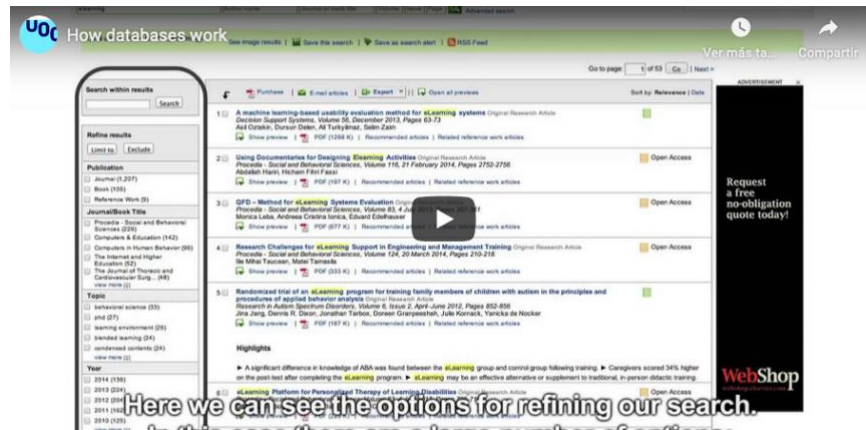
Bibliographic databases are a truly efficient way for researchers to stay on top of everything being published in their field.

Here are some typical reasons that researchers use databases:



- To know what has been published on a specific topic.
- To stay up to date on the latest contributions in any given field of research.
- To find all the publications from one author.
- To find out what institutions are leading the research in a specific topic.
- To discover the top journals regarding a specific area of study.

For more information, you can check this video about how databases work with an explanation about their structure and examples of searches in Scencedirect and Scopus.



Here we can see the options for refining our search.

Here you have two recommended databases available in the library for citation or bibliometric searches (to track, analyse and visualise research) and peer-reviewed literature searches:

WoS

The Web of Science (WoS), owned by the company Clarivate Analytics, is the collection of databases of bibliographic references and citations to periodical publications that collect information from 1900 to the present day. The WOS is made up of the core collection Core Collection that includes the Science, Social Sciences and Arts and Humanities indices, in addition to the Proceedings of both Sciences and Social Sciences and Humanities together with the tools for analysis and evaluation, such as the Journal Citation Report and Essential Science Indicators. Additionally, it has the databases that complement it included in the license for Spain: Medline, Scielo and Korean Citation Index.

Access from the library: <https://biblioteca-uoc.idm.oclc.org/login?url=http://wos.fecyt.es/>

Access to the resource, select WOS, click on Web of Science and select your University. Sign in with your campus keys. [Here we show you how.](#)

For more information: You can access to the [video tutorials](#).

Scopus

Database produced by Elsevier which includes some 18,000 publications about 5,000 international publishers. It is a new navigation tool that includes the largest collection worldwide of multidisciplinary abstracts, references and indexes of scientific literature, technical and medical.

Scopus allows to know the number of times an article has been cited, to find web resources and patents.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/scopus>

For more information: Quick Reference Guide- Scopus.

For more information

You can have a look at the UOC learning resource “**Where to Publish: How to identify potential journals**” (section 3.2. Bibliometric indicators > 3.2. Main Journal-level metrics by source) in order to know about the **main bibliometric indicators** provided by WoS and Scopus.

2.2.3. Specialized database for your disciplines

2.2.3.1. Education and ICT (e-learning)

The Education and ICT (e-learning) doctoral programme focuses on the study of phenomena linked to electronic teaching and learning, the institutional or social framework and technology-mediated online learning systems in general in any geographic or cultural setting, while also opening up this focus to include any innovative research that uses ICT in the framework of education.

Main research lines:

- Responsive Teaching and Learning Processes and Outcomes in Online Education
- Challenges for Sustainable Management and Organization in Online Education
- Technologies for Supporting Teaching and Learning
- Flexible and Open Online Education

Here you have the recommended databases available in the library for your discipline of Education and ICT. Please refer to the tutorials, guides and other training material available on the right-hand side of the database access website. We have also provided you with some recommendations and tips to optimize your searches in line with your needs.

ERIC (Educational Resource Information Center)

Database specialized in education, offering access to over 1.4 million bibliographic records of journal articles, books, conference papers and other materials related to education.

Access from the library: <http://biblioteca.uoc.edu/ca/recursos/recurs/eric-educational-resources-information-center>

Recommendations/tips: the ERIC homepage provides you with some [Search tips](#) and offers a [video tutorial](#) for you to watch. Another very useful option is the “peer-review only” filter, in order to retrieve only this kind of journal. Some descriptors available at ERIC to search for articles about Education and ICT are the following: Educational Technology, Technology Uses in Education, Computer Uses in Education, Electronic Learning, Technology Interaction, etc. You can use these descriptors in your search box and filter by them through the left-hand column in the results page.

Finally, we also recommend you have a look at the ERIC Thesaurus, a list of terms representing research topics in the field of education, and browse by the [list of categories](#) (for instance, Science and Technology).

Education Database

ProQuest® Education Journals (included on ProQuest Central) provides users with access to over 1,000 leading educational publications. It covers publications from primary, secondary and higher education, as well as special education, homeschooling and senior education. Many titles are indexed in the ERIC database.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/education-database>

Recommendations/tips: you have “full text” and “experts-evaluation” filters available and you can also download a list of the titles included (Excel file). Some specialized descriptors to find information about e-learning are the following (remember you can filter from the results page):

- online instruction
- online instruction AND distance learning
- online instruction AND learning
- online instruction AND educational technology

2.2.3.2. The Information and Knowledge Society

Information and communication technologies (ICT), touted since the mid-20th century and constantly being updated, have gradually crept into all areas of human activity: culture, the economy, teaching, media, business management, public service management and even the operational aspects of the political system. Analysing how these technologies are used in various contexts and the profound changes they have wrought is key to understanding contemporary society and to exercising any type of professional or academic activity.

Main research lines:

- Basic and applied health sciences
- Communication and new media
- Information and knowledge management
- Psychology, technology and society
- Economy, business and labour
- Law and criminology in the information society
- Politics, democracy and human rights
- Culture, society and language

Here you have the recommended databases available in the library for your discipline of Information and Knowledge Society. Please refer to the tutorials, guides and other training material available on the right-hand side of the database access website. We have also provided you with some recommendations and tips to optimize your searches in line with your needs.

Communication & Mass Media Complete

Database offering full-text access to hundreds of communication and media journals, as well as the cited references from specialized journals in the field. It includes, moreover, the collections of two leading databases in the field: CommSearch, operated by the National Communication Association, and Mass Media Articles Index, operated by Pennsylvania State University.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/communication-mass-media-complete>

Recommendations/tips: you can use the following descriptors in your search: Information society, Information Technology, Information and Communication Technologies, internet, mass media, sociology, etc. Check the help to get the maximum advantage from them.

E-LIS Eprints in Library & Information Science

E-LIS is an open-access thematic repository specialized in Library, Archives and Documentation. Operating since 2003, it offers international coverage, including content in 22 languages. You will find a variety of content: journal articles, speeches, papers, guides, posters, etc.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/e-lis-e-prints-library-information-science>

Recommendations/tips: use the advanced search to exploit the large range of available filters, in addition to the search strategy that you type in the search box (for instance, Information and Knowledge Society) There is a subject about Information use and sociology of information in the Browsing option.

Elsevier Science Direct

A database of e-books and journals with content from the fields of engineering, life sciences, health, social sciences and humanities. Users have access to more than 2,000 journals focusing principally on the fields of medicine, science and technology, and to over 1,400 e-books published since 1995.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/elsevier-sciencedirect>

Recommendations/tips: use the [advanced search](#) and you will discover articles, books chapters and reviews, conference abstracts, case reports, etc., about Information and Knowledge Society (we recommend you type these terms in the “*Title, abstract or keywords*” field, for a specific search, or in “*Find articles with these terms*” field, for an initial and generic search). Check the [help](#) to get the maximum advantage from them.

Oxford Journals

Full-text access to more than 200 journals published by Oxford University Press. You will find journals specialized in the areas of medicine, science, mathematics, physics, law, humanities and social sciences.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/oxford-journals>

Recommendations/tips: you can find research articles, book reviews, editorials, reports and other documents about Information and Knowledge Society. We recommend you use the [advanced search](#) and filters (subject, document type, date, etc.) to perform a more refined search. Check the [help](#) to get the maximum advantage from them.

2.2.3.3. Technology

The research lines and groups associated with the programme are organized around network and information technologies, focusing on areas such as information security, distributed systems, open and decentralized networks, multimedia systems and applications, e-learning technology, information systems, computer vision and software and service engineering.

Main research lines:

- Computer Vision, Machine Learning and Pattern Recognition
- Distributed, Parallel and Collaborative Systems
- Simulation and Optimization
- Management of ICT Systems and Services
- Information and Network Security and Privacy
- Knowledge Technologies
- Learning Technologies
- Software Engineering
- Wireless Networks and IoE
- Human-Computer Interaction, Design and Multimedia
- Applications of Geographic Information Systems
- Complex Systems
- Data Science

Here you have the recommended databases available in the library for your discipline of Technology. Please refer to the tutorials, guides and other training material available on the right-hand side of the database access website. We have also provided you with some recommendations and tips to optimize your searches in line with your needs.

Association for Computing Machinery (ACM)

Database offering full-text access to the journals and conference proceedings published by the Association for Computing Machinery, the world's largest computing society.

Access to ACM e-book collection is also available.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/association-computing-machinery-acm>

Recommendations/tips: bibliographic database focusing exclusively on the field of computing. You have an **advanced search** available and you can also browse for publications, special interest groups, special collections and conferences, as well as browsing by different types of document, publishers or ACM Computing Classification System. Have a look at the **ACM Full-Text Collection and Holdings of the ACM DL**.

IEEE Xplore

This database offers full-text access to journals, standards and proceedings published by the IEEE/IEE since 1988.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/ieee-xplore>

Recommendations/tips: the database contains specialized journals, proceedings of international conferences, books and standards about technology. We recommend you use the **advanced search options** and check the **search tips** in order to reformulate your searches to get the best results.

Lecture Notes in Computer Science (LNCS)

A collection of Lecture Notes in Computer Science (LNCS) from Springer. It includes the sub-collections Lecture Notes in Artificial Intelligence (LNAI) and Lecture Notes in Bioinformatics (LNBI).

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/lecture-notes-computer-science>

Recommendations/tips: access to specific lecture notes in Computer Science from Springer. These are Conference Proceedings about Artificial Intelligence, Computer Communication Networks, Information Systems, Software Engineering and Algorithm Analysis, which can be download in pdf or epub.

Library, Information Science & Technology (LISTA)

Free bibliographic database specialized in libraries and information management. It covers the following subjects, among others: classification, cataloguing, bibliometrics and online information retrieval.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/lista-library-information-science-technology-abstracts>

Recommendations/tips: you can use the following subject descriptors (SU Descriptors in the menu bar) in the advanced search or Browsing Indexes: information technology, technological innovations and information storage & retrieval systems. We recommend you have a look at the Ebsco Help.

ArXiv

Repository that contains around 987,801 open-access documents and pre-publications on physics, mathematics, IT, quantitative biology, finances and statistics.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/arxiv>

Recommendations/tips: Repository that contains open-access documents and pre-publications on Computer Science, amongst other related topics. You can use the arXiv's search feature with filters and tips that will help you refine your search.

2.2.3.4. Bioinformatics and Computational Biology

High-level training in Bioinformatics research opens up a wide range of career options for students, as well as academic opportunities. There is currently an ever-growing demand for professionals with this level of training, coming from hospitals and the pharmaceutical, biotech and agri-food industries. Companies in these sectors are generally highly active in terms of their RD&I, as this is essential if they wish to maintain or improve their competitive position. The explosion in the biological data handled by hospitals and businesses (the big data paradigm) and the need to develop procedures to correctly interpret these data (in the context of an institution's specific objectives) are the main factors behind this growing demand for people highly trained in Bioinformatics.

Main research lines:

- Omics and Molecular Bioinformatics (Universitat Autònoma de Barcelona)
- Biomolecular Modelling and Simulation (Universitat Autònoma de Barcelona)
- Systems and Synthetic Biology (Universitat Autònoma de Barcelona)
- Data Science and Bioinformatics
- Biostatistics and Mathematical Modelling in Bioinformatics (Universitat Autònoma de Barcelona)

Here you have the recommended databases available in the library for your discipline of Bioinformatics. Please refer to the tutorials, guides and other training material available on the right-hand side of the database access website. We have also provided you with some recommendations and tips to optimize your searches in line with your needs.

Biological Science Database

This database (included on ProQuest Central) provides access to a wide variety of topics related to biology, including some of the most popular information resources among users in the academic, government and public research fields.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/biological-science-database>

Recommendations/tips: this database (included on ProQuest Central) provides access to a wide variety of topics related to biology, including some of the most popular information resources among users in the academic, government and public research fields.

BioMed Central

An online, open-access publishing service for research articles on all aspects of biology and medicine.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/biomed-central>

Recommendations/tips: you can search using the descriptor "Bioinformatics" and retrieve reviews, retraction notes, oral presentations, posters, editorials, etc.

Cambridge Core

An e-book platform covering the humanities, social sciences, science, engineering and medicine, in English. The UOC Library offers access to certain e-books. Chapters may be download in pdf.

Access from the library: <http://biblioteca.uoc.edu/ca/recursos/recurs/cambridge-core>

Recommendations/tips: this platform allows users to download book chapters and scientific articles about biotechnology and the biotech industry.

Electronic Journals Service (EJS)

Online abstracts from over 10,000 international journals. It offers full-text access to all journals to which the UOC Virtual Library subscribes.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/electronic-journals-service-ejs>

Recommendations/tips: database containing almost fifty leading scientific journals about biotechnology.

IEEEExplore

This database offers full-text access to journals, standards and proceedings published by the IEEE/IEE since 1988.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/ieee-xplore>

Recommendations/tips: the database contains specialized journals, proceedings of international conferences, books and standards about Bioinformatics and Biomedical Engineering. We recommend you use the advanced search options and check the search tips, in order to reformulate your searches to get the best results. You can also browse by Bioengineering.

Lecture Notes in Computer Science (LNCS)

A collection of Lecture Notes in Computer Science (LNCS) from Springer. It includes the sub-collections Lecture Notes in Artificial Intelligence (LNAI) and Lecture Notes in Bioinformatics (LNBI).

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/lecture-notes-computer-science>

Recommendations/tips: Access to specific lecture notes in Computer Science from Springer, which includes a sub-collection of Lecture Notes in Bioinformatics (LNBI).

2.2.3.5. Humanities and Communication

The doctoral programme in Humanities and Communication trains students to research the social change phenomena that can be found in social practice and ideology. By studying new forms of social interaction, communication and artistic expression, our aim is to broaden our understanding of phenomena such as globalization, neocolonialism, inequalities, social movements and the appropriation of technological innovations.

Main research lines:

- Communication
- Culture and Society
- History and Art
- Language and Literature

Here you have the recommended databases available in the library for your discipline of Humanities and Communication. Please refer to the tutorials, guides and other training material available on the right-hand side of the database access website. We have also provided you with some recommendations and tips to optimize your searches in line with your needs.

Cambridge Core

An e-book platform covering the humanities, social sciences, science, engineering and medicine, in English. The UOC Library offers access to certain e-books. Chapters may be download in pdf.

Access from the library: <http://biblioteca.uoc.edu/ca/recursos/recurs/cambridge-core>

Recommendations/tips: this platform allows users to download book chapters and scientific articles about communication and biotechnology and the b industry.

Art, Design and Architecture Collection

This electronic resource includes documents on modern and contemporary art, design and crafts and the history of Western art, covering a period that runs from the end of the 19th century to the present day. It also includes content from the following sources: Arts and Humanities Full Text; Design and Applied Arts Index (DAAI); International Bibliography of Art (IBA); ART bibliographies Modern (ABM).

Access from the library: <http://biblioteca.uoc.edu/ca/recursos/recurs/art-design-and-architecture-collection>

Recommendations/tips: this platform provides access to numerous studies in the field of plastic arts and provides information about different periods and artistic styles. For example, you can search for the keyword "Romanticism" and then filter by novelty index or document format (books, articles, theses, etc.).

Arts & Humanities Database

This database (included on ProQuest Central) provides hundreds of titles on art, architecture, design, history, philosophy, music, literature, theatre and cultural studies. It was designed to complement the following indexes: ABM, Avery, BHA, BHI, DAAI, Index Islamicus, MLA, Philosopher's Index and RILM.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/arts-humanities-database>

Recommendations/tips: this platform provides access to numerous essays, journals, theses, etc., in the arts and humanities. For example, you can search for the keyword "Bauhaus" and then filter by novelty index or document format (books, articles, theses, etc.).

Artstor

Artstor is a database offering access to over 1.8 million images from museums, archives and artists. The contents are multidisciplinary, though the stand-out collections are in the fields of the humanities, arts, architecture and sciences. Strong points: high-definition images with zoom so you can see all the fine details, general information about the paintings, options for downloading and sharing the files and an area for working on and creating presentations.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/artstor>

Recommendations/tips: a virtual art gallery with over 1.8 million images taken from the best archives, artists and museums. For example, you can search for the keyword "Klimt" and then filter by different image resolutions and qualities.

Periodicals Index Online

Periodicals Index Online is a database of millions of citations for articles published in the arts and humanities and social sciences, over more than 300 years. The journals indexed span 37 key subject areas and multiple languages.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/periodicals-index-online>

Recommendations/tips: bibliographic database containing documents on the arts and humanities and social sciences. For example, you can search for the keywords “artificial intelligence and art” and then filter by index novelty or document format (books, articles, theses, etc.).

Communication & Mass Media Complete

Database offering full-text access to hundreds of communication and media journals, as well as the cited references from specialized journals in the field. It includes, moreover, the collections of two leading databases in the field: CommSearch, operated by the National Communication Association, and Mass Media Articles Index, operated by Pennsylvania State University.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/communication-mass-media-complete>

Recommendations/tips: You can use the following descriptors in your search: Information society, Information Technology, Information and communication technologies, internet, mass media, sociology, etc. Check the [help](#) to get the maximum advantage from them.

Association for Computing Machinery (ACM)

Database offering full-text access to the journals and conference proceedings published by the Association for Computing Machinery, the world’s largest computing society. Access to ACM e-book collection is also available.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/association-computing-machinery-acm>

Recommendations/tips: bibliographic database focusing exclusively on the field of computing and digital culture. You have an [advanced search](#) available and you can also browse for publications, special interest groups, special collections and conferences, as well as browsing by different types of document, publishers or ACM Computing Classification System. For example, you can search for the term “digital brand”.

LISA: Library and Information Science Abstracts

Bibliographic database containing articles from international journals specialized in information science and related disciplines.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/lisa-library-and-information-science-abstracts>

Recommendations/tips: bibliographic database containing articles from international journals specialized in documentation and information sciences. For example, you can search for the keywords “fake news” and then filter by novelty index or document format (books, articles, theses, etc.).

Screen Studies Collection

Screen Studies Collection is an outstanding resource for the study of film history, criticism and theory. You will find documentation on cinematography, filmographies and indexes from the American Film Institute (AFI) Catalogue, the Film Index International (FII) and the FIAF International Index to Film Periodicals Database.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/screen-studies-collection>

Recommendations/tips: you can find the main indices, international filmographies and cinematographic publications. Search the Screen Studies Collection - Libguid and About Screen Studies Collection.

2.2.3.6. Health and Psychology

The programme's overall goal is to make sure students develop the competencies required to successfully carry out research in the fields of health and psychology. More specifically, our goal is to train researchers who can ask meaningful research questions and whose solution contributes to improving people's health and well-being.

Main research lines:

- Care and community health
- E-health
- Food and lifestyle
- Gender, health and sociocultural models
- Healthy work environments
- Neuroscience and language disorders
- Psychology: tools, interventions and practices for health

Here you have the recommended databases available in the library for your discipline of Health and Psychology. Please refer to the tutorials, guides and other training material available on the right-hand side of the database access website. We have also provided you with some recommendations and tips to optimize your searches in line with your needs.

BioMed Central

An online, open-access publishing service for research articles on all aspects of biology and medicine.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/biomed-central>

Recommendations/tips: An online, open-access publishing service for research articles on all aspects of biology and medicine. For example, you can search for the term "COVID-19".

CINAHL® Complete

CINAHL® Complete (Cumulative Index to Nursing and Allied Health Literature) is a database specialized in nursing, biomedicine, alternative medicine and other disciplines related to the health sciences. Its contents boast 5,500 indexed journals, with full access to the text of 1,200. It features nursing publications, including those of the National League for Nursing and the American Nurses Association.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/cinahl%C2%AE-complete>

Recommendations/tips: database specialized in nursing, biomedicine, alternative medicine and others. For example, you can search for the term “catheterization” and then filter by novelty index or document format (books, articles, theses, etc.).

Cochrane Library Plus

Collection of bibliographic databases featuring abstracts and full-text papers on evidence-based medicine.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/cochrane-library-plus>

Recommendations/tips: database about medicine created by Cochrane, a non-profit international organization. For example, you can search for the term “cardiovascular accident” or “anxiety disorder” and then filter the different results found.

Consumer Health Database

This database (included on ProQuest Central) features scholarly journals and magazines covering all types of health-related topics, ranging from sports injuries to women’s health, food, nutrition, midwifery, eye care and dentistry.

Access from the library: <http://biblioteca.uoc.edu/ca/recursos/recurs/consumer-health-database>

Recommendations/tips: database about family health. For example, you can search for the term “odontology” or “web addiction” and then filter by novelty index or document format (books, articles, theses, etc.).

DynaMed Plus

An e-book platform covering the humanities, social sciences, science, engineering and medicine, in DynaMed Plus is a medicine resource that provides evidence-based clinical information. An international medical team provides its experience and applies evidence-based methodology to ensure that the contents represent a precise and objective vision. You will find thousands of subjects, descriptions, recommendations, graphics and images on emergency medicine, oncology, infectious diseases, paediatrics, obstetrics, gynaecology and other fields.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/dynamed-plus>

Recommendations/tips: medical resource that provides evidence-based clinical information. For example, you can search for the term “diabetic foot infection” or “web addiction” and then filter the different results found.

Food Science & Technology Abstracts (FSTA)

Reference database published by International Food Information Science. It offers access to the references cited in journals, books, reports and patents in the fields of food science and technology, nutrition and similar areas from 1969 to today.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/food-science-technology-abstracts-fsta>

Recommendations/tips: reference database produced by International Food Information Science. For example, you can search for the term "sport nutrition" or "kelatonin" and then filter the different results found.

Health & Medical Collection

This database (included on ProQuest Central) offers comprehensive and reliable coverage of scholarly journals on clinical and biomedical topics, consumer health, healthcare management and more.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/health-medical-collection>

Recommendations/tips: database about health and medicine. For example, you can search for the term "glaucoma" or "agoraphobic" and then filter by novelty index or document format (books, articles, theses, etc.).

Medline

This database (included on ProQuest Central) offers comprehensive and reliable coverage of scholarly journals on clinical and biomedical topics, consumer health, healthcare management and more.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/medline>

Recommendations/tips: database about health and medicine. For example, you can search for the term "glaucoma" or "agoraphobic" and then filter by novelty index or document format (books, articles, theses, etc.).

Medline Complete

The Medline Complete database provides information on a broad range of medical fields such as nursing, dentistry, biomedicine, bioengineering, life sciences, veterinary science, the public health system and preclinical sciences. Access the MeSH (Medical Subject Headings) index to find citations from over 5,400 periodicals and consult the full text of over 2,200 journals with coverage dating back to 1916.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/medline-complete>

Recommendations/tips: information about a wide range of medical areas. For example, you can search for the term "cardiovascular accident" or "anxiety disorder" and then filter the different results found.

Panamericana

Platform of electronic books specialized in the fields of medicine and health.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/eureka-platform-electronic-books-panamerican-medical-publishing-house>

Recommendations/tips: the publisher Editorial Médica Panamericana lets you register on its website. Watch this video to see how. If you do so, you can use bookmarks and underlining. Any changes you make are saved just for you in your profile.

PsycArticles

Database that contains the full text of journals published by the American Psychological Association (APA) and other related organizations (Canadian Psychological Association, and Hogrefe & Huber.) Compilation of titles specialized in every one of the branches of psychology: basic, applied, clinical and health, developmental, psychobiology and neuroscience, social, etc.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/psycarticles>

Recommendations/tips: database of journals published by the American Psychological Association (APA). For example, you can search for the term “self-protective behavior” and then filter by novelty index or document format (books, articles, theses, etc.).

Psychology & Behavioral Sciences Collection

A collection of nearly 500 full-text psychology journals, with a special focus on child and adolescent psychology. Some of these journals have also been indexed in PsycINFO. For example, you can access the journals of the American Psychological Association.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/psychology-behavioral-sciences-collection>

Recommendations/tips: a collection of journals with a special focus on child and adolescent psychology. For example, you can search for the terms “bullying and depression” and then filter by novelty index or document format.

Psychology Database

This psychology database gives users access to abstracts and full texts published in many PsycINFO-indexed publications, such as Development and Psychopathology or Journal of Youth and Adolescents. It covers areas such as behavioural, clinical, cognitive, developmental, experimental, industrial and social psychology, in addition to personality, psychobiology and psychometrics.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/psychology-database>

Recommendations/tips: a collection that includes the most prestigious journals in the field of clinical and social psychology. For example, you can search for the terms “family dysfunction” and “bulimic” and then filter by novelty index or document format (books, articles, theses, etc.).

Psyc INFO

Bibliographic database of the American Psychological Association containing citations and abstracts from journal articles, books, doctoral dissertations and reports. It includes approximately 2,524 journals. For a full list of the journals, see here.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/psycinfo-apa>

Recommendations/tips: bibliographic database of the American Psychological Association (APA). For example, you can search for the term “employee absenteeism” and then filter by novelty index or document format.

PubMed

PubMed is operated by the National Centre for Biotechnology Information (NCBI). It is developed in conjunction with biomedical literature editors as a research tool for accessing citations and linking to the full-text content of the relevant journals on the platforms of participating publishers, providing the library has subscribed to them.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/pubmed>

Recommendations/tips: PubMed has been developed by the National Center for Biotechnology Information (NCBI). For example, you can search for the term “heart disease” and then filter by novelty index or document format (clinical trial, case report, article, etc.).

Behavioral and Mental Health Online

With over 2,500 videos and almost 3,500 books, documents and transcripts, this is an essential resource for studying and teaching in the areas of behavioural and mental health. It includes clinical mental health demonstrations, videos of real clinical mental health sessions, documentaries on the human condition, psychotherapy transcripts, reference works, psychological experiments and more.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/behavioral-and-mental-health-online>

Recommendations/tips: 2,500 videos and almost 3,500 books, documents and transcriptions on mental health and behaviour. For example, you can search for the term “panic” and then filter by different cases, both in text and audiovisual format.

2.2.3.7. Business Administration and Management

The doctoral programme in Business Administration and Management entails developing and directing research in this field of study and relating to the wider field of economics, with particular attention to business management, the employment market and the tourism sector.

Main research lines:

- Regional Development
- Strategic Management, Company and Business Policy

- Economics
- Finance and Accounting
- Training and Development in Organizations
- Innovation and Entrepreneurship
- Marketing
- Production, Logistics and Inventories
- Human Resources
- Information and Organizational Technology Systems
- Sustainability and Environment

Here you have the recommended databases available in the library for your discipline of Business Management. Please refer to the tutorials, guides and other training material available on the right-hand side of the database access website. We have also provided you with some recommendations and tips to optimize your searches in line with your needs.

ABI/INFORM Collection

A database (included on ProQuest Central) with thousands of full-text international journals and magazines, doctoral theses, data, reports and publications from the field of economics and business (such as The Economist). It includes the ABI/INFORM Global, ABI/INFORM Trade and Industry and ABI/INFORM databases.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/abiinform-collection>

Recommendations/tips: this database contains thousands of international publications and journals in the field of business and economics. For example, you can search for the term “competitive advantages” and then filter by novelty index or document format (books, articles, theses, case studies, etc.).

Accounting, Tax & Banking Collection

This database (included on ProQuest Central) brings together global scholarly journals with other key resources for access to reliable information in this continuously evolving area of study. Quickly locate precise results from sources ranging from current news to professional and academic journal articles covering the trends and history influencing the important accounting, tax, banking and financial issues of the day.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/accounting-tax-banking-collection>

Recommendations/tips: this database contains thousands of international publications and journals in the field of business and economics. For example, you can search for the term “risk analysis” and then filter by novelty index or document format (books, articles, sector-specific reports, case studies, etc.).

Asian & European Business Collection

This database (included on ProQuest Central) brings together global scholarly journals with other key resources for access to reliable information in this continuously evolving area of study. Quickly locate precise results from sources ranging from current news to professional and academic journal articles covering the trends and history influencing the important accounting, tax, banking and financial issues of the day.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/asian-european-business-collection>

Recommendations/tips: database on business and finance for the whole of Asia and Europe. For example, you can search for the term “high-tech firms” and then filter by novelty index or document format (sector-specific reports, case studies, etc.).

Business Market Research Collection

Conduct company, industry, economic and geopolitical market research with information from these sources:

- Hoover’s Company Profiles — information about more than 40,000 global public and non-public companies including location, financials, competitors, officers and more.
- OxResearch — succinct articles covering regional economic and political developments of significance from a network of 1,000 faculty members at Oxford, other leading universities and think-tanks.
- Snapshots — market research overviews on 40+ industries and 40 countries.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/business-market-research-collection>

Recommendations/tips: database containing Hoover’s company profiles, OxResearch and Snapshots about business, economics and market research. For example, you can search for the term “smartphone” and then filter by novelty index or document format (sector-specific reports and news).

Business Source Complete (EBSCO)

Database featuring bibliographic and full-text content, providing indexing and abstracts for the most important economics and business journals dating back to 1886. It contains detailed information on the most cited authors and offers access to journals, marketing, management, MIS, POM, finance and economics. It includes, moreover, additional information sources, such as financial data, market research reports and SWOT analyses, among others.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/business-source-complete-ebSCO>

Recommendations/tips: bibliographic database that indexes and summarizes academic journals in business and management. For example, you can search for the term “geographic concentration” and then filter by novelty index or document format (articles, SWOT analysis, sector-specific reports and news).

EconLit (ProQuest XML)

Bibliographic database published by the American Economic Association. It offers access to bibliographic information and abstracts of journal articles, monographs, dissertations, working papers and reviews of documents published in specialized economics and business journals. Subject coverage includes accounting, economic policy, labour, marketing, economic theory, etc.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/econlit-proquest-xml>

Recommendations/tips: this database of bibliographic references produced by the American Economic Association contains articles, monographs and theses. For example, you can search for the term “market trends” and then filter by novelty index or document format (articles, monographs and theses).

IDEAS: Economics and finance research

Extensive bibliographic database on economics and finance compiled by the Federal Reserve Bank of Saint Louis, Missouri, in the United States. It allows you to browse by document type and identify authors, institutions and other key players in the field of economics.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/ideas-economics-and-finance-research>

Recommendations/tips: comprehensive bibliographic database about economics and finance containing articles, monographs and theses. It also includes directories of authors on economics and numerous rankings within this field. For example, you can search for the term “Paul R. Krugman” and then filter by novelty index or document format (articles, monographs and theses).

MarketLine Advantage

Source of information on companies, industries and businesses by countries and sectors. Interactive platform that provides access to a set of mixed information about companies, industries and financial data by countries. Includes up to 4,000 industrial profiles and more than 30,000 companies from 215 countries and databases: Country Statistics, Financial Deals Tracker, Company Prospector, Investment Advisory Prospector, Company Report Generator.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/marketline-advantage>

Recommendations/tips: database mainly comprising company and sector reports containing general corporate information, products, competitors and SWOT analyses. For example, you can search for the term “telecom and IT” or by company “Amazon.com Inc”.

Statista

- 1,000,000 statistics focusing on industries, markets, consumers, trends and insights, downloadable in all popular formats, including PowerPoint, Excel, PDF and PNG
- 18,000 reliable public and scientific sources
- Data on 80,000 topics covering Europe — with a focus on the United Kingdom — the United States and China

- Detailed forecasts for more than 450 different industries from 40 advanced economies and developing countries

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/statista>

Recommendations/tips: statistical database focusing on industries, markets and consumers. For example, you can search by browsing different sectors or perform a direct search on “gaming” and get statistics, forecasts, surveys and infographics.

2.2.3.8. Tourism

The aim of this doctorate is collaborating and promoting training and research in tourism in Spain.

Main research lines:

- Planning and managing tourist destinations. Tourism and local society
- Economic analysis of the tourism sector
- Management and innovation in tourism organizations
- Tourism and heritage
- Smart systems in the tourism sector. ICT and data analysis

Here you have the recommended databases available in the library for your discipline of Tourism. Please refer to the tutorials, guides and other training material available on the right-hand side of the database access website. We have also provided you with some recommendations and tips to maximize your searches in line with your needs.

Hospitality & Tourism

A database offering full-text access to journals covering research and industry news relating to hospitality and tourism. It combines the records of three collections, namely Cornell University's former Hospitality database, Articles in Hospitality and Tourism (AHT), formerly co-produced by the Universities of Surrey and Oxford Brookes, and the Lodging, Restaurant & Tourism Index (LRTI), formerly produced by Purdue University. Subject areas covered include hotel administration, statistics, travel, tourism, casinos, international cuisine, hospitality law, research and event management.

Access from the library: <http://biblioteca.uoc.edu/en/resources/resource/hospitality-tourism>

Recommendations/tips: database mainly containing research articles published in journals relating to the field of tourism. For example, you can search for the term “wine” and get literature about the wine sector, which is closely linked to tourism.

2.3. Services to help you in your information search

As a UOC doctorate student, you can access the following services in order to help you in your information searches:

Service	Description	Information
Loan service	The Loan service makes physical documents from the UOC's library collection and those held by other libraries available to all members of the UOC community.	Access Video tutorial
Electronic documents supply	Request documents in electronic format (journal articles, conference proceedings, book chapters, etc.) which are unavailable from the UOC Library and we will send them to you via email.	Access Video tutorial
The Library replies	Get answers to any questions you might have about the library, its services, resources and collections.	Access Video tutorial
Bibliographic services	We offer personalized guidance (encompassing search terms, information sources for reference, etc.) on searching for documents relevant to your academic or research activity.	Access Video tutorial

3. Search beyond the Library

3.1. Academic search engines

In this section we highlight some free academic search engines and databases that could provide a reasonable alternative to Scopus and WoS (which require payment and are accessed via Library subscription). Nevertheless, while these are powerful tools that are renewing academic information systems, they still have certain deficiencies and margins for improvement compared to Scopus and WoS.



Google Scholar

Multidisciplinary academic search engine with two functions: search engine and assessment tool (citations).

One of its main benefits is its inclusion of a wide range of scientific output: not just journal articles, but also books, theses, studies in academic repositories, reports and more. It is especially useful for academics in the humanities and social sciences, as it locates grey literature (over and above scientific articles) and considers documents in languages other than English (Orduña-Malea et al., 2016).

It has simple and advanced searches and good options for browsing, sorting and filtering results (which can be exported to reference managers). Here are some recommendations on carrying out more effective searches in Google Scholar:

<https://scholar.google.co.uk/intl/en/scholar/help.html#overview>.

Some of the main functions available after starting a session are:

- *My library*: for managing and saving bibliographic references.
- *My citations*: for tracking citations in other articles. It shows all citations received (per publication and cumulative), changes per year and indicators based on citations per author (index h; index i10).
- *Alerts*: for making future or prospective searches, for receiving updates on a topic by creating automatic searches. More information on alerts:
<https://scholar.google.es/intl/en/scholar/help.html#alerts>.

Google Scholar also has another interesting feature, Google Scholar Citations¹, which started as a service allowing authors to generate a profile showing published documents collected by Google Scholar, and the number of citations received by each, generating a series of bibliometric indicators.

Microsoft Academic

Microsoft Academic

This is a multidisciplinary academic search engine that can be browsed by knowledge area and includes lists of authors, journals and conferences. It provides access to different types of document (articles, books, book chapters, conference papers and patents). Its search results also includes scientific dissemination journals.

Other characteristics include search suggestions with semantic tags and an option allowing researchers to create their public author profile (including affiliation, CV, publications and so on).

Its strengths include the search and recovery system interface adapted to and centred on the researcher and innovative options for viewing information (such as *Topics Analytics*, *Author Analytics* and *Institutions Analytics*). As for its weaknesses, Microsoft Academic does not offer an alert service and does not have an advanced search. This means that there is no parameterized search option, although it tries to compensate for this by providing a range of filter options in the results screen (Codina, 2019).

Dimensions

Free trial version of Dimensions

This search engine is provided by the Digital Science, a company that belongs to one of the top publishing groups worldwide, the Holtzbrinck Publishing Group.

Dimensions uses the Australian and New Zealand Standard Research Classification, ANZSRC, as an information categorization system, specifically the Fields of Research (FOR), which permits searches in these fields.

¹ <http://biblioteca.uoc.edu/en/resources/resource/google-scholar-citations>

It is an innovative product (Orduña-Malea; Delgado-López-Cózar, 2018), as shown by the following options:

- Direct link from altmetrics and ORCID to the results page.
- The link from results to its own reference management system, called ReadCube, while also offering other export options, such as BibTeX and RIS.
- Use of a FOR-based categorization system.
- Relative citation ratio (RCR) and field citation ratio (FCR) metrics to measure publication impact based on citation analysis. The former is linked to citations of articles that have received funding and the latter is linked to average citations in the field of the article.
- The Analytical View, which analyses all the retrieved documents based on certain parameters: Fields of Research (distribution of articles in different research fields), Overview (previous metric values), Researcher (by author) and Source Title (by publication title).

3.2. Repositories

Another type of information source which is extremely useful for searching for academic information are repositories. These contain a number of different types of documents: preprints, postprints, publishable manuscripts, research data, reports, conference papers, theses and more.

For more information on repositories, see also chapter 4 of the learning resource titled Open Access, “Open Access repositories for publishing”.

The UOC’s O2 institutional repository can be consulted in two ways:

- Accessing the platform and making a direct search (or browsing by communities and collections); or
- making an integrated search using the Library’s global search engine, which also retrieves documentation deposited in the institutional repository.

Among the other types of repositories for finding research results, two are specifically worth mentioning: preprint repositories and data repositories.

3.2.1. Preprint repositories

Preprints are scientific studies, or more specifically, manuscript versions of scientific articles that are still to be peer reviewed and have not yet been published in a journal. In short, they are research results that have not completed the full publication cycle but which are useful to the scientific community, as they:

1. Might provide advances or extended versions of the final article or published version (Spinak, 2010);
2. they are a means of rapidly reporting research, as publishing is usually a slow process (Bourne Polka, Vale & Kiley, 2017); and
3. they are a means of accessing the latest research.

Thus, it is worth searching and retrieving preprints on your research topic for updates on the latest studies and scientific findings.

Where can you find preprints?

There is a wide range of preprint repositories available; some focus on a specific field while others are multidisciplinary. Below is a selection of each type:

Multidisciplinary

- Zenodo
- Figshare
- OSF Preprints
- PeerJ
- Preprints.org

Specific fields

These repositories contain preprints of the some of the fields covered in UOC doctoral programmes:

- arXiv covers physics, mathematics, computer science, quantitative biology, statistics, engineering and economics.
- PsyArXiv is similar to the above but for psychology.
- EdArXiv was launched in 2019 for education research.
- medRxiv covers medicine and health sciences.
- LISSA Archive: is for library and information sciences.
- SocArXiv covers the social sciences.

Others

See also these other lists of preprint repositories (Foster, 2019):

- Wikipedia
- The repository maintained by Joseph McArthur (co-founder of the Open Access button)

3.2.2. Data repositories

Research data are often a research project's most valuable output, as they are used as primary sources to underpin further scientific research and enable the derivation of theoretical or applied findings (Foster, 2019). Research data include statistics, experimental results, fieldwork, survey outcomes, interview recordings and transcripts, and images.

Open data can be freely accessed and reused, restructured and redistributed for academic purposes, forming the basis of research verification and reproducibility and paving the way for wider collaboration. In this regard, data repositories and data journals are the platforms on which you can find research datasets.

To learn more about open data, check out the **Open Data Handbook**.



Where can you find research data?

Multidisciplinary Research Data Repositories

- The Registry of Research Data Repositories (Re3data)
- FAIR Sharing
- Eurostat: statistics database
- Qualitative Data Repository
- CoreTrustSeal certified data repositories

Data repositories and data portals focused in social sciences

- Social Sciences dataset repositories (PloS)
- The Australian Data Archive
- UK Data Archive
- Analysis and Policy Observatory (APO)
- Inter-University Consortium for Political and Social Research

You can also check the [comparative chart](#) for open access data carried out by Library of the Autonomous University of Barcelona or the [list of repositories](#) elaborated by the Library of Erasmus University.

3.3. Other ways to stay up to date



An easy and dynamic way you can keep up with the latest developments in your field is by subscribing to RSS feeds or subscribing to alerts from sources of interest.

3.3.1. Subscribing to alerts

Database alerts

The alert service that many databases offer allows you to stay on top of new publications on any given topic by means of free, regular emails.

Depending on the database, there may be different types of alerts:

- Table of content alerts send you the table of contents each time a new issue of a given journal is published.
- Search alerts notify you when new documents matching your search criteria or making reference to authors you would like to keep track of are added.
- Publication citation alerts notify you whenever a given publication (journal article, book chapter, etc.) is cited in a new document that is added to the database.
- Author citation alerts let you know whenever a given author is cited in a new document that is added to the database.

Every database has its own specific features and design, but most have information on their platforms on how to set up predefined alerts. Often, after performing a search, you will see icons such as the ones below. In those cases, you simply have to click on “Set alert”.

If a database offers the option of setting alerts, it will be indicated in the section providing “other relevant information”.

Create Alert ?

Search Alert: "climate change on 2018-05-25 11:08 AM"

E-mail (You must sign in to send e-mail alerts) [Sign In](#)

General Settings

Frequency: Once a day

Articles published within the last: One Year

Results format: Brief

RSS Feed


<https://rss.ebscohost.com/AlertSyndicationService/Syndication.aspx/GetFeed?guid=5597973>

Save Alert **Cancel Alert**

Install a news reader

To use an RSS feed, you must first install a news aggregator or reader. News readers group together, or aggregate, all of the news sources you subscribe to and allow you to browse the headlines from one place.

Subscribe to news feeds:

- Once you have installed a news reader, all you have to do is subscribe to the news feeds you are interested in.
- To do this, you need to obtain the website address (URL) of the RSS news feed indicated by the icon . Copy the link from the URL address field for the page you would like to subscribe to, paste it into your browser and follow the instructions for your chosen news reader.
- Often, you will have to paste it into the box that opens when you click on Add New Feed.
- Done! Now, just make sure the news feed you searched for is listed among the feeds you subscribe to.

Recommended RSS apps: To start creating your alert systems you can use any of the apps listed below; these will help you to keep track of the websites and blogs that interest you most.



Feedly
Free RSS reader.



Flipboard
Free RSS reader.



Newsblur
Free RSS reader.



Feeder
RSS reader with paid subscription and free options.

Conference alerts, research funding alerts, calls for papers, etc.

The same tracking system can be configured to monitor conferences or other events of interest. It may also be interesting for you to subscribe to the call for paper alert service offered on the websites of research funding agencies, institutions and entities, or scientific journals.

- WikiCFP is a semantic wiki for calls for papers (CFP) in science and technology fields. There are about 50,000 CFPs on WikiCFP, which is used by over 100,000 researchers every month.

- CFPList.com hopes to facilitate new scholarship in the Humanities and Social Sciences by organizing and highlighting conference opportunities to share academic work, receive scholarly feedback and network professionally.

You can check the following vídeo “Search alerts or RSS feeds?”, from the University of Leicester, available to watch in Youtube.

3.3.2. Connect to other researchers: academic networks



Academic social networks are service platforms, most of them bibliographic, which permit the dissemination of research while also creating knowledge-based communities. These types of dissemination environments are increasingly important for reporting research on new media. The aim is to gain reputational impact and positioning for both researchers and research groups (García-Peñalvo, F. J., 2018a).

The advantages of academic social networks for researchers include:

- Reaching goals: creating a personal brand as a researcher allows you to take control of your researcher image. It makes you proactive and helps you learn to achieve both personal and professional goals.
- Gaining recognition: this means being valued for your scientific work and knowledge.
- Networking: this helps to expand your contact network, which translates into obtaining greater access to resources in future projects.
- Improving employment: although the world of research is highly bureaucratic, increasing the quantity and quality of your contacts provides access to privileged information and work opportunities.
- Improving content: optimize your researching by sharing and presenting it among a professional and non-professional public to obtain feedback.
- Gaining real-world impact: studies and publications will gain impact by providing values and solutions to a community and field.

When disseminating research on academic or general social networks, it is recommendable first to find out what kind of licence was applied when the research results were published, to avoid incompatibilities with currently applied publishing policies and licences.

You need to know:

- What publishing policy or licence is applied by the journal or publishing group in which you are going to be published;
- the correct use of Creative Commons licences;
- the embargo period applied to your publications; and
- what uses of your work/publication you afford to third parties under the licence you have accepted for your publications.

SHERPA/RoMEO is an online resource that groups together and regularly analyses open access policies of publishing houses around the world and provides a summary of self-archiving permits and the conditions of rights granted to authors.

Academic Networks:



This search engine allows you to track when your articles are cited. It shows all citations received (per publication and cumulative), changes per year and indicators based on citations per author (index h; index i10).

Microsoft Academic

The search engine allows you to conduct a complete study of a researcher, as it can be used to display organizations and authors in a given area, maintain links with the scientific community, search for lectures in your area of interest and view research trends, links between researchers, co-authors, etc.

publons

This is the digital platform currently owned by Clarivate Analytics, also the owner of the important academic database Web of Science, in which researchers can create and maintain their public profile as authors of articles and peer reviews.



This tool allows you to disseminate scientific output among other researchers with similar interests; strengthen your online identity, thanks to its professional researcher

profile; discover new collaborators; find out about new developments in topics of interest; recommend articles and groups related to the field of research; improve visibility of scientific output so Mendeley references are indexed in Google Scholar; share documents with other researchers or Mendeley contacts by email; participate in and work with public groups and private restricted access groups, to share references/PDF, discuss research topics, project follow-ups and reading lists; find real-time statistics on documents (number of reads by field, academic status and country, users' keywords); and configure the information you wish to share.

ACADEMIA

This is a free social networking site whose aim is to connect scientists and offer them a platform to share their research papers and let them track articles relevant to their fields of study. This topic-based social medium has over 18 million users and over 5 million scientific publications worldwide. It promotes open access in science and aims to revolutionize the traditional editorial peer-review process, to permit the publication of the complete text of books, articles, drafts and other materials and speed up the visibility of research.

ResearchGate

This is an academic network that started in 2008 and by the end of 2016 reported having 9 million users worldwide. According to several studies, it is the network with the highest number of active users, although its closest competitor, Academia.edu, reported a total of 34 million users in January 2016, of whom a third are classified as active users.

Academic Networks:



This is a professional social medium which can be used for disseminating research, for instance by creating groups, sharing knowledge and serving as a bridge between researchers, journalists and community managers.



This is a microblogging social medium which can be used for research-related purposes. It is the fastest social network for live commentary on events and for disseminating announcements of initiatives, results and ideas. It is the perfect channel for researchers to build a personal brand around their research.

YouTube

This can serve to strengthen the online presence of research. It helps improve personal and/or professional online presence. It also maximizes the potential of profile biographies to improve links between researchers and access to new information.

More About:

- Some examples of researchers' online profiles, available to watch in Youtube:
 - Professor from University of Saskatchewan
 - Professor from iSchool Illinois
 - Professor from Hokkaido University
- Example of article presentation, available to watch in Youtube:
 - Author from ETHE Journal

3.3.3. Forums, workplaces, collaborative environments, co-creation labs, etc.

More About:

You should also identify and join online discussion lists that are relevant to your topic. These lists are a great way to network with other people working in your area and are really useful for getting a quick answer to queries like “Can anyone recommend a book on X?” They are also a good way of finding out what’s going on in your subject: people often post details of forthcoming publications, conferences and seminars – sometimes even jobs. But there are also more technical tools designed specifically for researchers. These applications add options such as the ability to control the layout of a document and add citations appropriately to scientific manuscripts.

JISCM@il

JiscMail helps people working in education and research sectors to discuss, debate, collaborate and communicate with peers, experts and partners using mailing lists. Their mailing lists are themed around taught subjects, research areas, special interest groups and collaborative project activities. However, they only host mailing lists which support or enhance UK academic and research sectors.



Some of the ways scientists use Slack in their labs include perfecting research work; attending lectures; monitoring experiments; managing workspace personalization; recognizing the contribution of colleagues/acknowledgements; creating task lists for the whole laboratory; and introducing new laboratory members.

AUTHOREA

200,000 researchers, professionals and students working in the most important laboratories, universities and companies, solving major problems in all fields of research, from astronomy to zoology, write and publish on Authorea. It is designed for modern research. Upload documents easily. Then enrich them with tables and figures, live data, equations and dynamic graphs. View your document with your own design, brand and domain names. You can run your own group portal, a small journal or lecture and share your research with the world. Everyone has their own flow in managing citations and references. You can drag and drop your favourite library or use the Authorea instant search to locate a reference by author, keyword or DOI.



H-Net is an international interdisciplinary organization of scholars and teachers dedicated to developing the enormous educational potential of the internet and the World Wide Web. Our edited networks publish peer reviewed essays, multimedia materials, and discussions for colleagues and the interested public. The computing heart and main office of H-Net resides at the History Department, Michigan State University, but H-Net officers, editors and subscribers come from all over the globe.

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