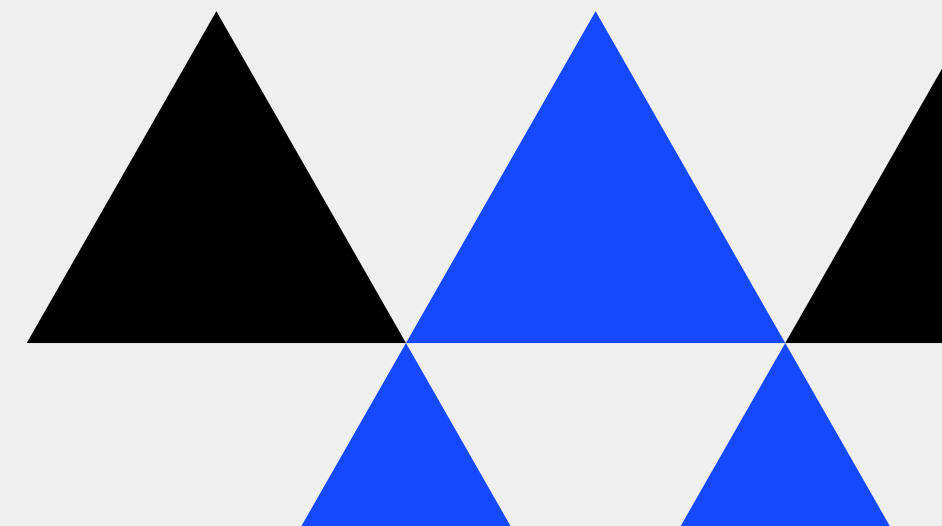


SoTL Literature Reviews: Strategies and Mechanics



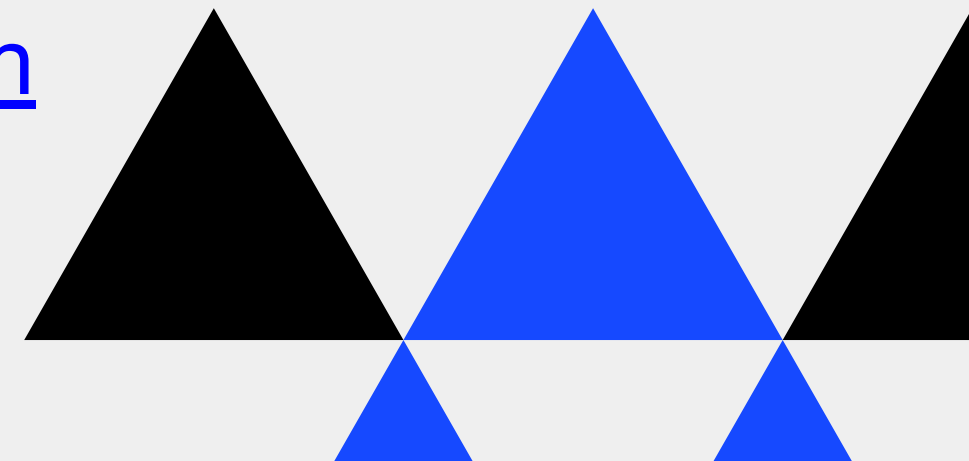
Hello there!



I'm Erik Christiansen

~ Librarian, Mount Royal University, Calgary,
Canada


- echristiansen@mtroyal.ca /
contact@erikchristiansen.net
- erikchristiansen.net
- Twitter @ egchristiansen
- Pod edtechexamined.com



Today's objectives



By the end of this session you will

1. Be able to explain the literature search planning process
 2. Be able to identify relevant databases and journals to search
- 

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Searching the Literature on Scholarship of Teaching and Learning (SoTL): An Academic Literacies Perspective

Part 1

Mick Healey

Healey HE Consultants

 <https://orcid.org/0000-0003-1195-0370>

Ruth L. Healey

University of Chester

DOI: <https://doi.org/10.20343>

/teachlearningu.11.4

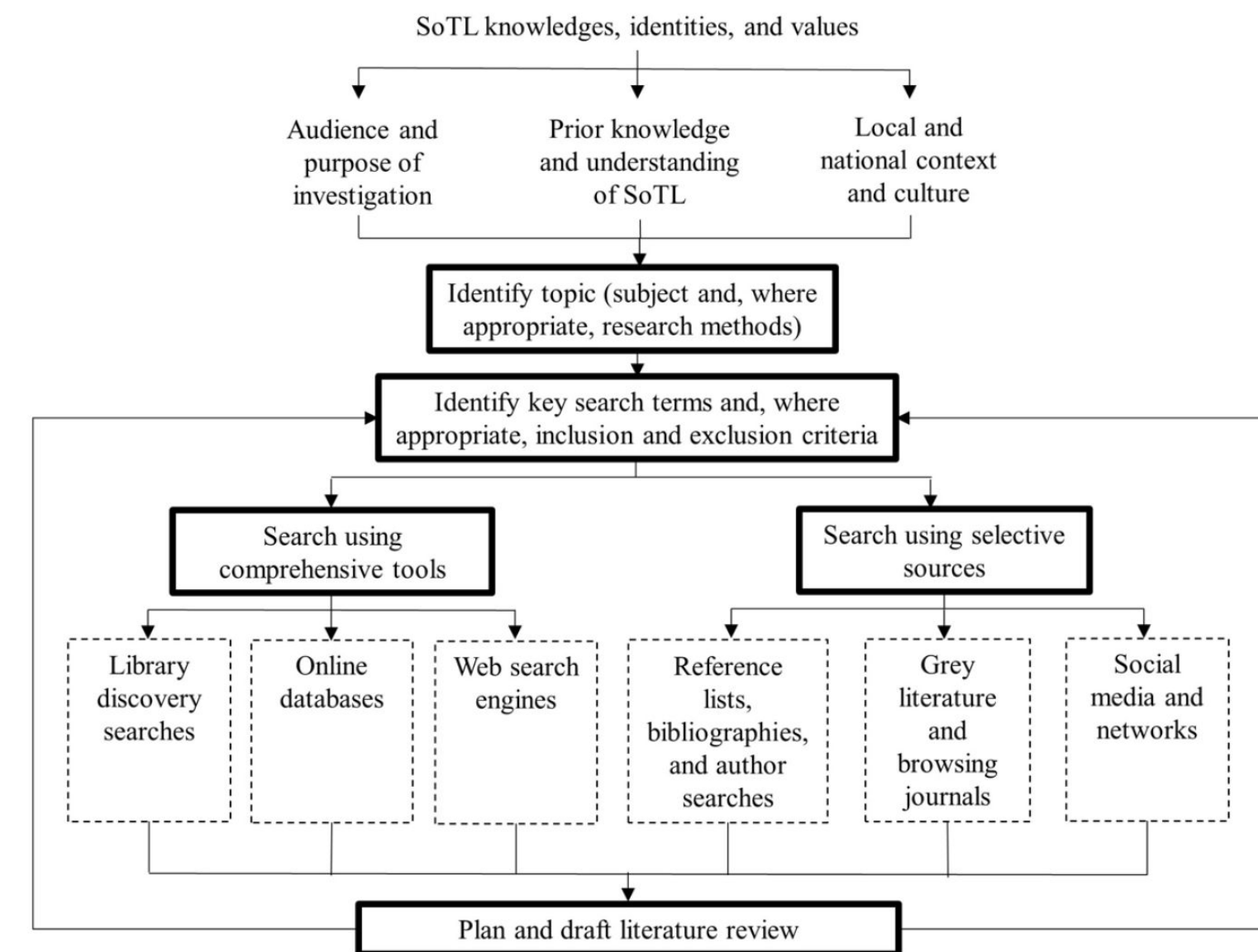
Keywords: SoTL literature search, academic literacies, searching using comprehensive tools, searching using selective sources, citation practices

 PDF

PUBLISHED

2023-01-16

Figure 1. SoTL literature search framework



Informed by health sciences



[CC image from PEXELS](#)

What I'd like to cover



Planning

Creating a search strategy and setting up documentation



Searching

Where to look and how to construct the search



Analysis

Strategies for analyzing the literature and managing citations

High-level:
Language





“Theme” the research question

— What are the essential “themes” (or “chunks”) of your question, and what are the relevant keywords (including synonyms)?

Research Question Development

For additional details on the research process, please consult the _____ guides.

Step 1: Broad Topic

Considering your research interests or work experiences, form a “rough” idea of a question about the population that you are interested in learning more about. You will refine this idea after completing the chart.

Eg. Mind mapping in the classroom

Step 2: Conduct background research

Start with a background search using an encyclopedia from the library or by searching on Google. Then, move onto searching for peer-reviewed articles in an academic database. Background searching is essential because it provides you with key terminology used in a given sub-discipline, and it provides you with the names of prominent researchers. Encyclopedias often cite key articles and books that helped shape our understanding of the topic.

Eg. Encyclopedias searched

- CREDO Academic Core
- Oxford Library



**Do mind mapping activities impact
students' motivation in the
classroom?**



Do mind mapping activities impact students' motivation in the classroom?

Theme 1: Mind-mapping

Theme 2: Motivation

Theme 3: Students

Theme 4: Classroom/higher education



Theme 1: Mind-mapping

“mind-map”, “free association”, “word painting”, “thought association”

Theme 2: Motivation

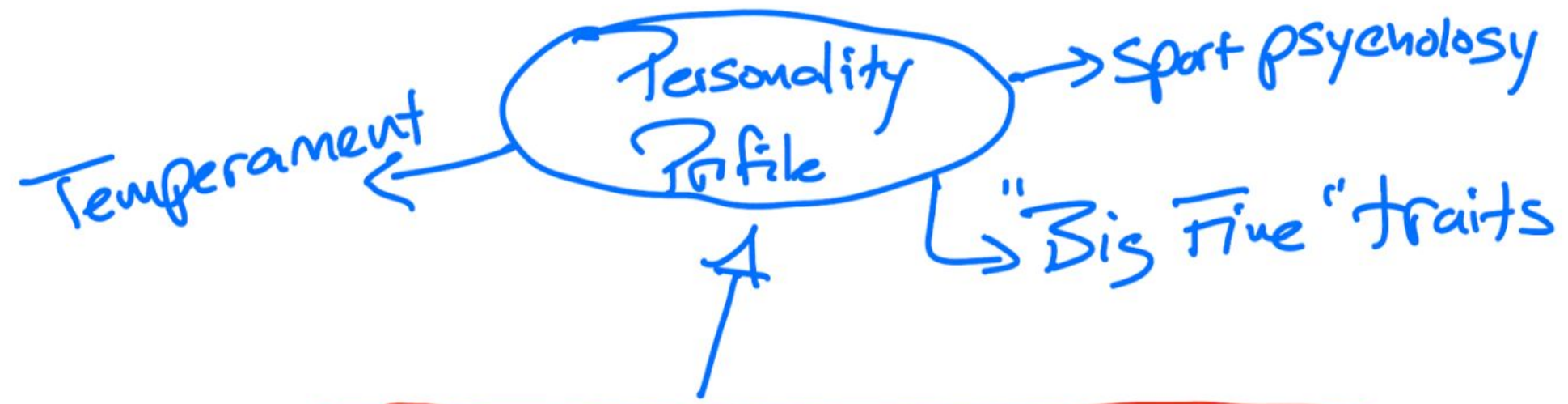
motivat*, incentive, inspir*

Theme 3: Students

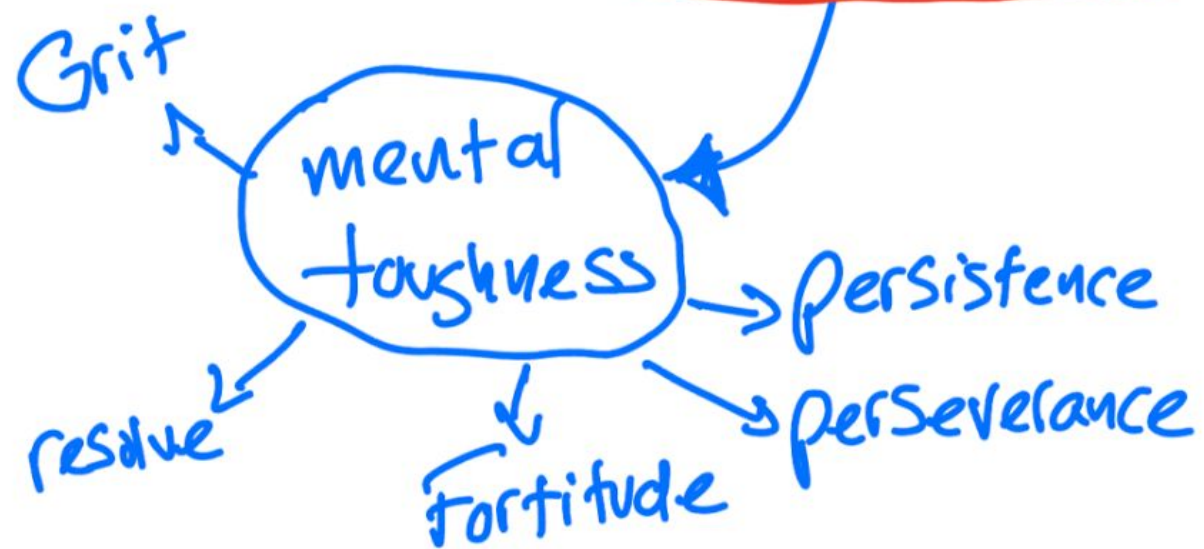
student*

Theme 4: Classroom/higher education

college, university, “higher education”, post-secondary, tertiary



What psychological factors contribute to resilience in ultra-marathon runners?



Mechanics of the search



Levels of search

STEP 1

Library discovery layers



Databases



Aggregate content from journals. Ideal for interdisciplinary topics.

STEP 2

Journals



Shortlist relevant journals to search based on results from your institutional library search or databases

STEP 3

Citation indexes



Who is cited



Search operators

Boolean: **AND/OR/NOT**

- mind-map AND classroom
- motivation OR inspire
- mind-map NOT “bubble chart”

Truncation: *****

- Search different spellings and plural/singular
- e.g. behav*

Exact phrases: **“cognitive dissonance”**

Proximity searching: **student N2 motivat***





Theme 1: Mind-mapping

**“mind-map” OR “free association” OR “word painting” OR
“thought association”**

Theme 2: Motivation

motivat* OR incentive OR inspir*

Theme 3: Student

student*

Theme 4: Classroom/higher education

**college OR university OR “higher education” OR post-secondary
OR tertiary**

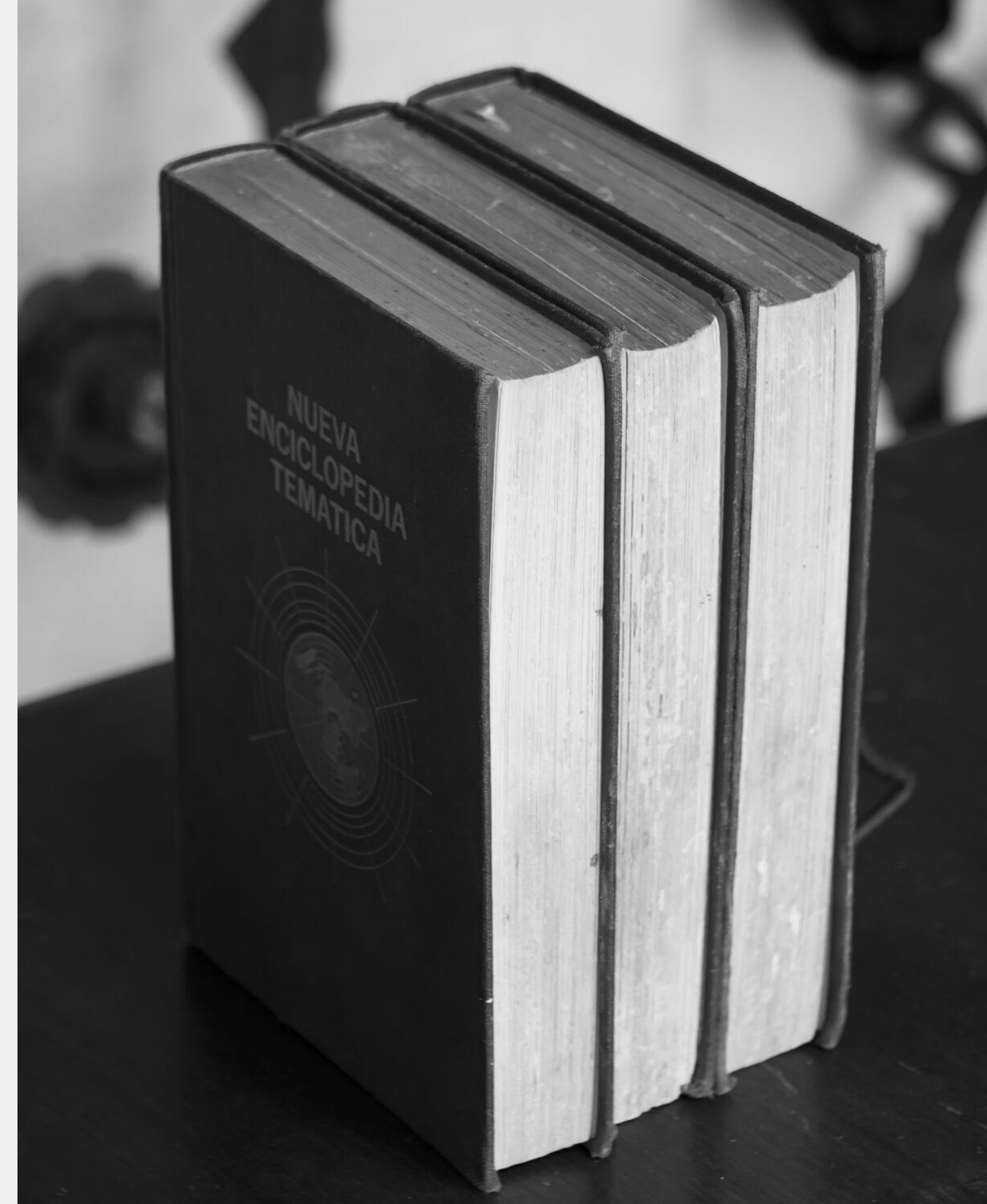
Starting databases

Education/SoTL

- Education Resource Information Centre (ERIC) - GSU
- Education Research Complete (EBSCO product)
- ProQuest Education Database - GSU
- JSTOR

Citation indexes

- Scopus
- Web of Science
- Google Scholar





Searching: **Education Research Complete** | [Choose Databases](#)

"mind-map" OR "free association" OR "work paintin

Select a Field (optional) ▾

Search

AND ▾

student*

Select a Field (optional) ▾

[Clear](#) ?

AND ▾

college OR university OR "higher education"

Select a Field (optional) ▾



[Basic Search](#) [Advanced Search](#) [Search History](#) ▶



« **Refine Results**

Current Search ▾

Find all my search terms:

("mind-map" OR "free association" OR "work painting" OR "thought..."

Expanders

Apply equivalent subjects ☒

Limit To ▾

- ☐ Full Text
☐ References Available
☐ Peer Reviewed

From: To:
Publication Date

Search Results: 1 - 30 of 144

Date Newest ▾ Page Options ▾ Share ▾

1. **Using an avatar-based digital collaboration platform to foster ethical education for university students.**



By: Hu, Yung-Hsiang; Yu, Hui-Yun; Tzeng, Jian-Wei; Zhong, Kai-Cheng. *Computers & Education*. Apr2023, Vol. 196, pN.PAG-N.PAG. 1p. DOI: 10.1016/j.compedu.2023.104728.

Subjects: Asynchronous learning; Moral education; Courseware; Teaching methods; AOL Inc.; Ethical decision making; Digital technology; Avatars (Virtual reality)

[Find full text](#) ▶

2. **The Effectiveness of Collaborative Mind Mapping in Hong Kong Primary Science Classrooms.**



By: Fung, Dennis; Liang, Tim. *International Journal of Science & Mathematics Education*. Mar2023, Vol. 21 Issue 3, p899-922. 24p. DOI: 10.1007/s10763-022-10279-1.

Subjects: Science classrooms; Academic achievement; School children; Hong Kong (China); Mind maps

[Cited References: \(11\)](#)

[Find full text](#) ▶

3. **The impact of COVID-19 on student learning during the transition from remote to in-person learning: using mind mapping to identify and address faculty concerns**



[Find full text](#)

[Find Similar Results](#)
using SmartText Searching.

The impact of COVID-19 on student learning during the transition from remote to in-person learning: using mind mapping to identify and address faculty concerns.

Authors: [Becker, Tyler B.](#)^{1,2}
[Fenton, Jenifer I.](#)¹
[Nikolai, Michele](#)¹
[Comstock, Sarah S.](#)¹
[Swada, Jeffrey G.](#)¹
[Weatherspoon, Lorraine J.](#)¹
[Tucker, Robin M.](#)¹ *tucker98@msu.edu*

Source

Source: [Advances in Physiology Education](#). Dec2022, Vol. 46 Issue 4, p742-751.
10p.

Document Type: Article

Subject Terms: [*Distance education](#)
[*Interpersonal communication](#)
[*Undergraduates](#)
[*Learning](#)
[Mind maps](#)
[COVID-19](#)

Subject headings

Author-Supplied Keywords: [food science](#)
[higher education](#)
[nutrition](#)
[remote learning](#)
[STEM](#)

Research question development

Using the background information you located, draft your research question. You will return to this table in the future.

Draft Research Question	Revised research question
Eg. Do mind mapping activities impact students’ motivation in the classroom?	

Search strategy

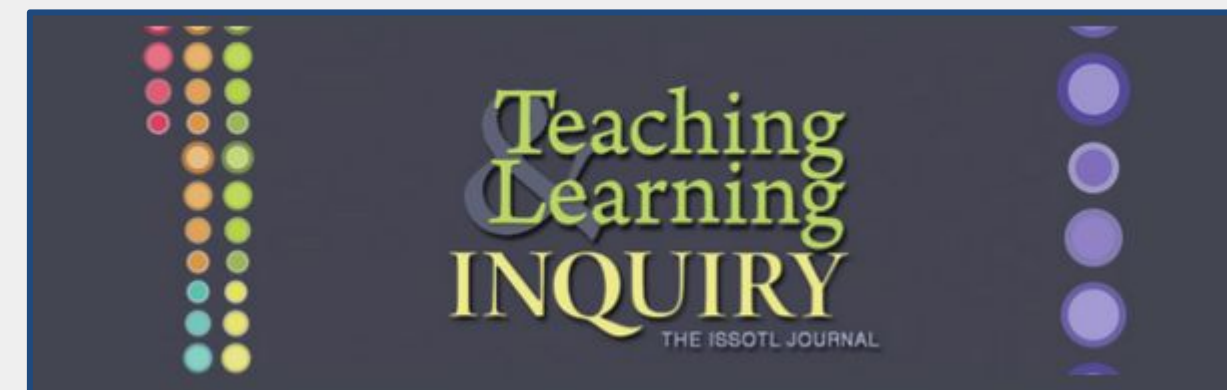
Once you’ve drafted your research question, it’s time to start looking for other scholarly literature to support your research project. Using the table below, keep track of the database you’ve searched *and* the search strategy you employed for each database - including all relevant keywords and phrases.

Database or journal	Search search strategy <i>(List the specific terms for each search – indicate which one worked the best)</i>
ERIC	(“mind-map” OR “free association” OR “work painting” OR “thought association”) AND (<u>motivat*</u> OR incentive OR <u>inspir*</u>) AND student*
Education research information centre	
JSOR	

Starting journals

Interdisciplinary SoTL journals

- International Journal for the Scholarship of Teaching and Learning
- The Journal of Scholarship of Teaching and Learning (JoSoTL)
- The Canadian Journal for the Scholarship of Teaching and Learning (CJSOTL)
- Teaching and Learning Inquiry (ISSOTL)
- New Directions for Teaching and Learning
- Teaching in Higher Education





Search

mind map

Search [Advanced](#)

Searching *International Journal for the Scholarship of Teaching and Learning*

Showing 25 out of 87 results. Starting at result 1.

 [My saved searches](#)

 [Save this search](#)

KEYWORD
Scholarship of teaching and learning (9)
SoTL (9)
Higher education (6)
Critical thinking (5)
Pedagogical content knowledge (3)
More ↓
PUBLICATION YEAR
2022 (5)
2021 (3)
2020 (9)

[The Effects of Mind Mapping Activities on Students' Motivation](#)

Date: 01/2012

Authors: Brett D. Jones, Chloe Ruff, Jennifer Dee Snyder, Britta Petrich, Chelsea Koonce

Publication: [International Journal for the Scholarship of Teaching and Learning](#)

 [Download](#)

[Using Digital Mapping Tool in Ill-structured Problem Solving](#)

Date: 07/2013

Author: Hua Bai

Publication: [International Journal for the Scholarship of Teaching and Learning](#)

 [Download](#)

[Employing Concept Mapping as a Pre-writing Strategy to Help EFL Learners Better Generate Argumentative Compositions](#)

Date: 07/2014

Using Digital Mapping Tool in Ill-structured Problem Solving

[Hua Bai](#), [Northeastern Illinois University](#)

[Follow](#)

Abstract

Scaffolding students' problem solving and helping them to improve problem solving skills are critical in instructional design courses. This study investigated the effects of students' uses of a digital mapping tool on their problem solving performance in a design case study. It was found that the students who used the digital mapping tool performed better than those who did not use the tool in providing arguments when defining the problem and justifying the solutions. The results indicated that digital concept mapping could facilitate students' ill-structured problem solving. In this study, guide map was used. Future research may examine the use of free style map in problem solving.

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Recommended Citation

Bai, Hua (2013) "Using Digital Mapping Tool in Ill-structured Problem Solving," *International Journal for the Scholarship of Teaching and Learning*: Vol. 7: No. 2, Article 11.
Available at: <https://doi.org/10.20429/ijsoil.2013.070211>

Additional Files

[ref_ijsoil2013070211.pdf](#) (91 kB)

Supplemental Reference List with DOIs

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[A Preliminary study on the use of Mind Mapping as a Visual-Learning Strategy, in General Education Science classes for Arabic speakers in the United Arab Emirates.](#)

Kenesha Wilson, Eddia Copeland Solas, Natalie Guthrie-Dixon
31-52

[Complete Issue Volume 13 Issue 5](#)

Editor Journal of the Scholarship of Teaching and Learning

[Prevalence of mind mapping as a teaching and learning strategy in physical therapy curricula](#)

Genevieve Zipp, Catherine Maher
21-32

[Concept Maps: A Tool to Prepare for High Fidelity Simulation in Nursing](#)

Barbara J. Daley, Sarah Black Beman, Sarah Morgan, Linda Kennedy, Mandy Sheriff
17-30

[Complete Issue Volume 13 Issue 4](#)

Editor Journal of the Scholarship of Teaching and Learning

[Volume 14, Number 5](#)

Editor Journal of the Scholarship of Teaching and Learning

[“The Map is not the Territory”: Stories from the Classroom](#)

Teresa Strong-Wilson
28-32

Google Scholar and Scopus

Google Scholar

(mind-mapping OR "mind maps") ("higher education" OR college OR universit

Articles

About 17,200 results (0.14 sec)

My profile

My

Any time

Since 2023

Since 2022

Since 2019

Custom range...

Sort by relevance

Sort by date

Any type

Review articles

☐ include patents

☒ include citations

Create alert

[PDF] Effect of mind mapping technique on student intrinsic motivation at higher education level

ue.edu.pk

M Amin, QA Hina - Journal of Research and Reflections in Education, 2018 - ue.edu.pk

... So, if the general observation presented above is applied on the findings of this study, it can be inferred that the use of mind mapping technique by the university students positively ...

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»

ENHANCING FRESHMAN STUDENTS'WRITING SKILLS WITH A MIND-MAPPING SOFTWARE

academia.edu

R Al-Jarf - ... proceedings of» eLearning and Software for Education ..., 2009 - ceeol.com

... The mind-mapping software uses ... mind maps for the essays they had to write. Post-test results showed that experimental students who used the mind-mapping software, made higher ...

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journals.co.za

T Grant, A Archer - South African Journal of Higher Education, 2019 - journals.co.za

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[HTML] Concept mapping, mind mapping and argument mapping: what are the differences and do they matter?

springer.com

M Davies - Higher education, 2011 - Springer

... Mind maps comprise a network of connected and related concepts. However, in mind mapping, ... map, and the aim of mind mapping is to find creative associations between ideas. Thus, ...

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Cited by 1087

Related articles

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[HTML] Mind mapping: Teaching and learning strategy for physical therapy curricula

lww.com

GP Zipp, C Maher, AV D'Antoni - ... of Physical Therapy Education, 2015 - journals.lww.com

... recently emerged in higher education is mind mapping (MM). The purpose of this position paper is to discuss the tenets and theoretical rationale associated with mind mapping, explore ...

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Citation overview

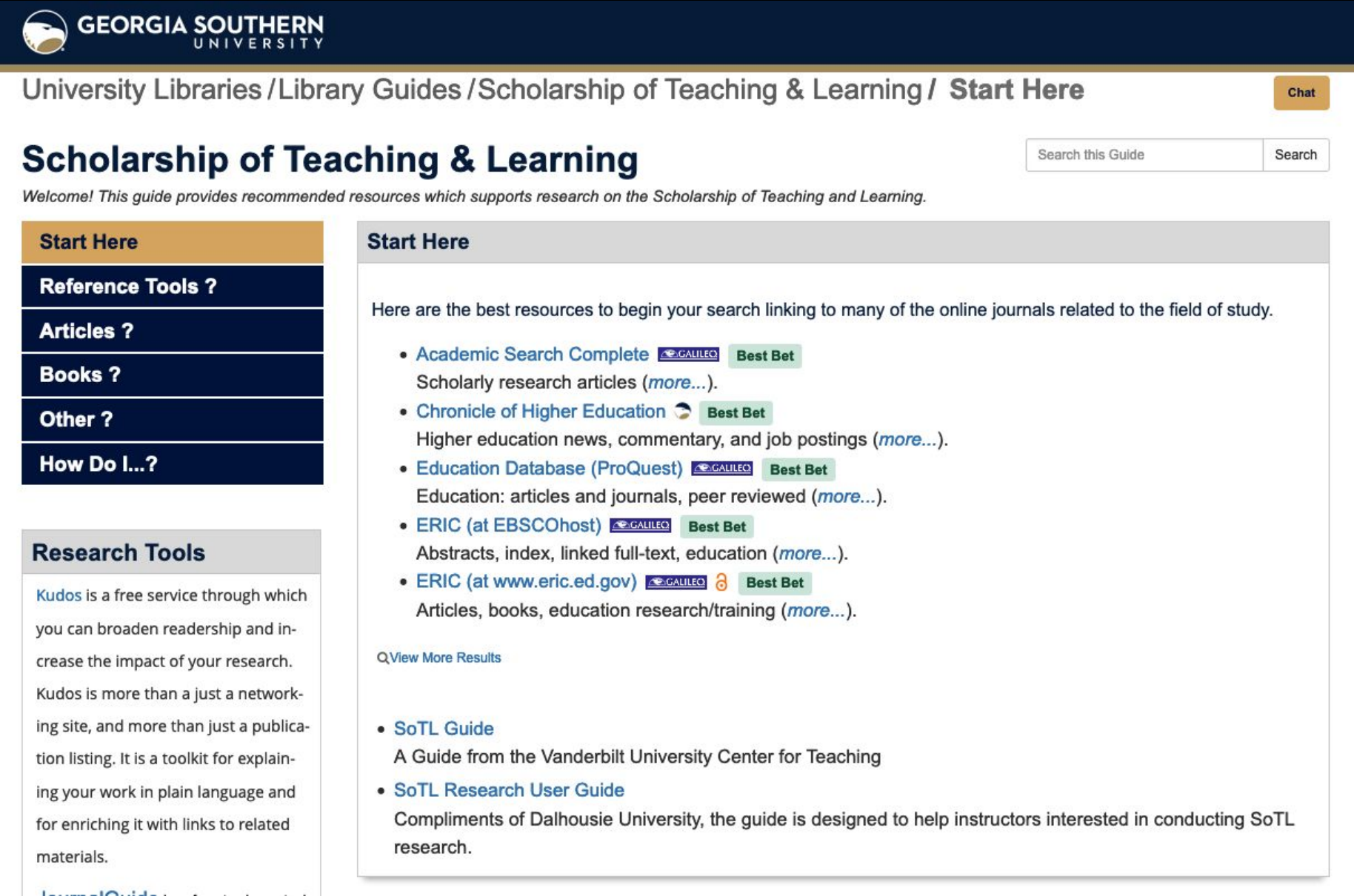
More

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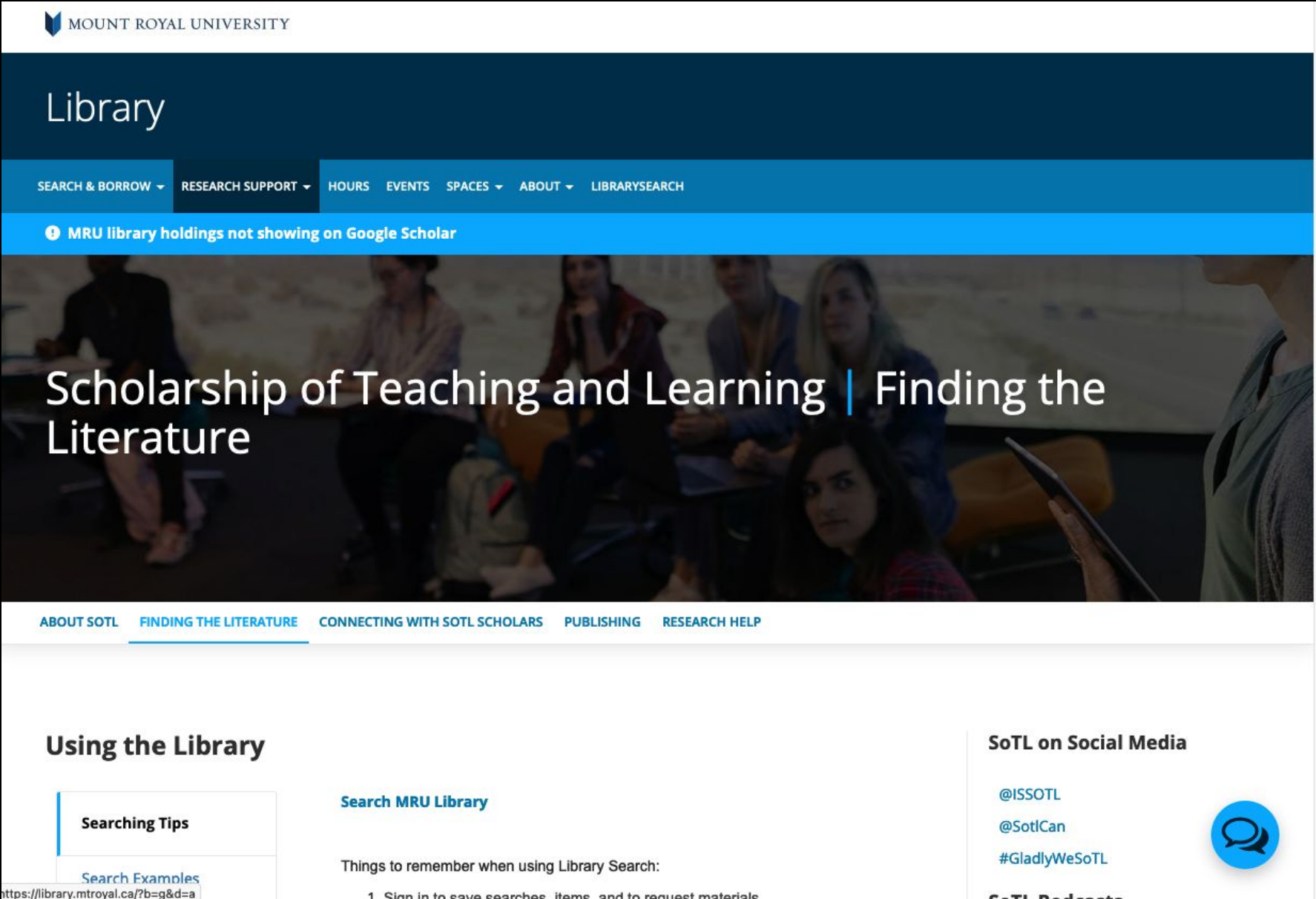
Sort by Date

	Document title	Authors	Source	Year	Citations
<input type="checkbox"/>	Conference Paper • Open access 41 Mind map learning for advanced engineering study: Case study in system dynamics	Woradechjumroen, D.	IOP Conference Series: Materials Science and Engineering, 297(1), 012054	2018	4
<div>Show abstractFull TextRelated documents</div>					
<input type="checkbox"/>	Book Chapter 42 Cross-cultural entrepreneurship education: Localization amidst globalization	Bandera, C., Eminet, A., Passerini, K., Pon, K.	Annals of Entrepreneurship Education and Pedagogy - 2018, pp. 99–122	2018	1
<div>Show abstractFull TextRelated documents</div>					
<input type="checkbox"/>	Article 43 Effect of teaching aids on student's academic performance in professional courses	Manthra Prathoshni, S., Vishnu Priya, V., Gayathri, R.	Drug Invention Today, 10(12), pp. 2358–2361	2018	4
<div>Show abstractFull TextRelated documents</div>					

Search the web for “SoTL library guides”



Georgia Southern



Mount Royal

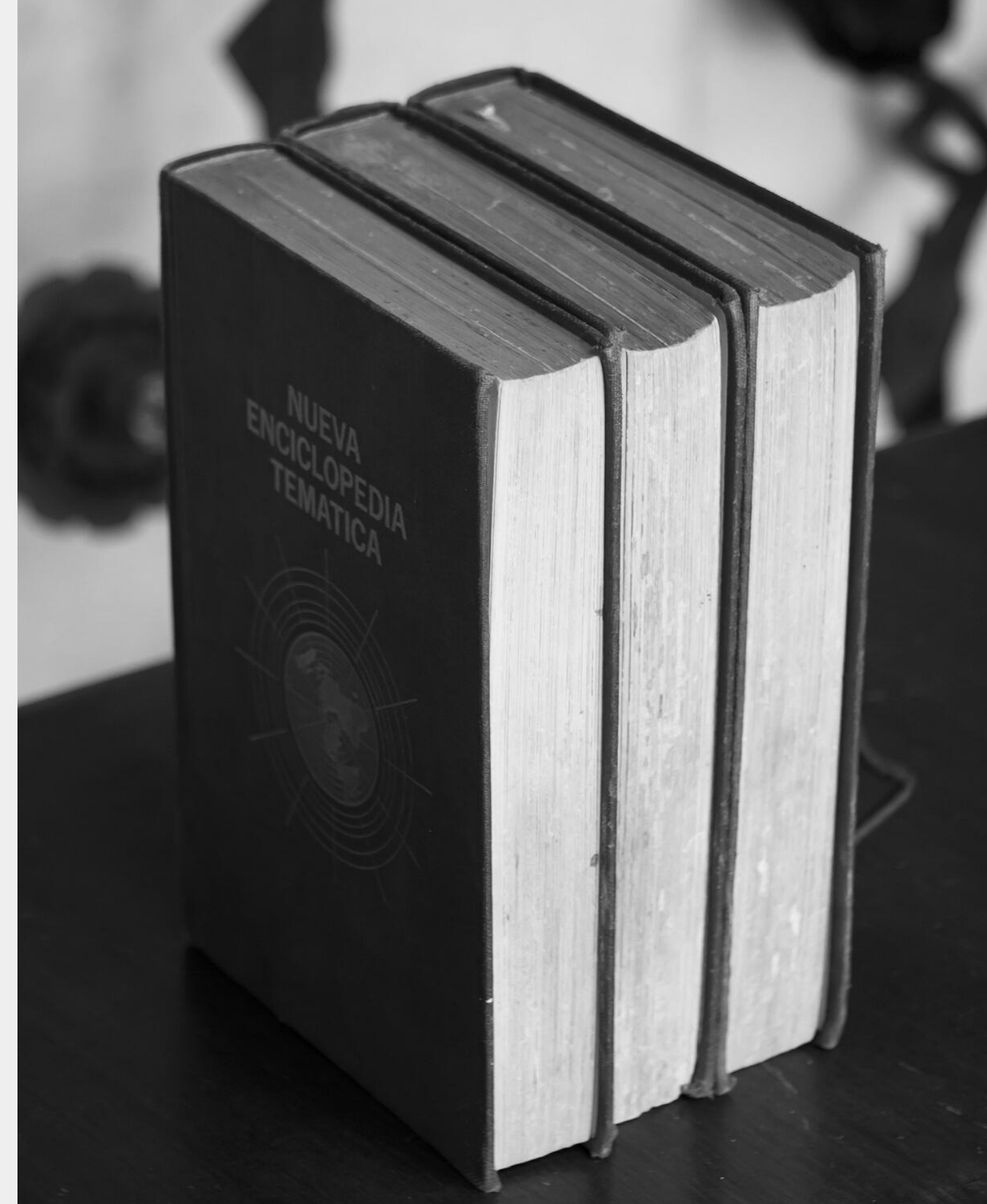
Screenshots from Georgia Southern University Library (left) and Mount Royal University Library (right)

Look for as you read

Recurring authors: Who are the “big names”?

New terms: Assume there are technical, clinical, or disciplinary terms/keywords you aren't already searching.

Document these terms and authors as you go in a format that everyone has access to.



How many sources are enough?



You're done when you hit saturation



Analyzing the literature

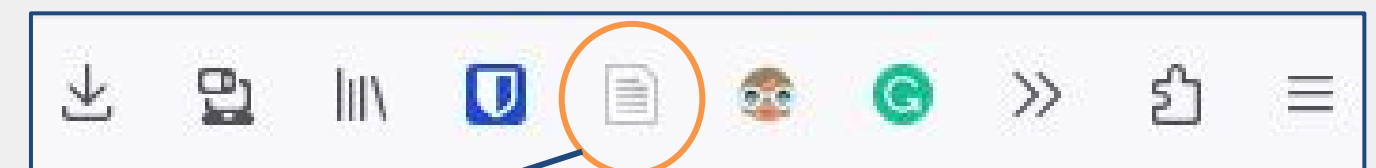
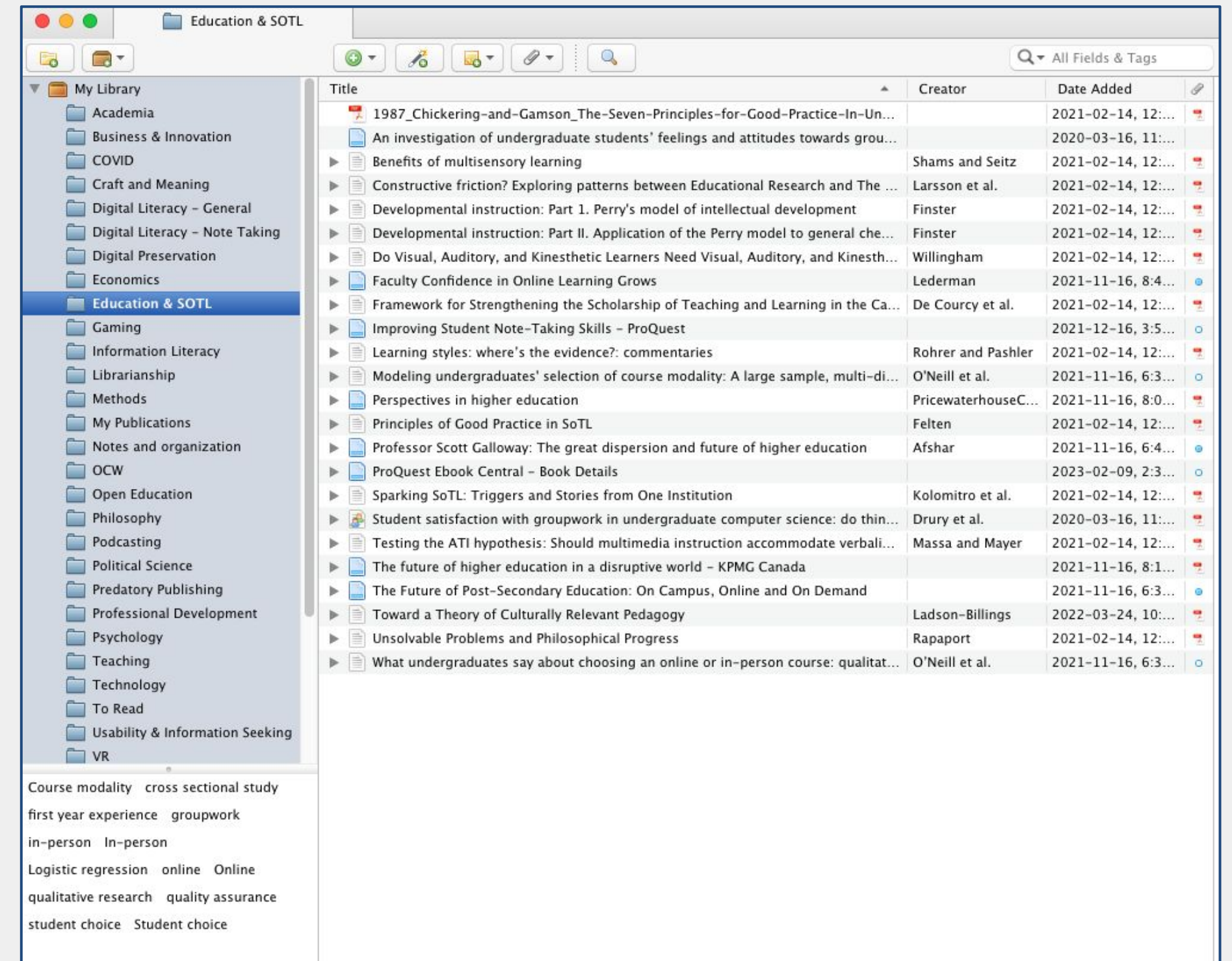


Citation managers

Zotero: Open source

Mendeley: Elsevier product

EndNote: Clarivate



Browser plugin

Screenshots taken from Zotero for macOS and FireFox browser

Synthesis matrix

	Method	Concept 1	Concept 2	Concept 3	Gaps, problems, limitations, unresolved questions, other notes.
Source 1 Citation:					
Source 2 Citation					
Source 3 Citation:					

Examples

- Concordia: <https://www.concordia.ca/content/dam/library/docs/research-guides/gradproskills/Lit-review-synthesis-matrix-Word.docx>
- Lumen Learning: <https://courses.lumenlearning.com/olemiss-writ250/chapter/using-a-synthesis-matrix/>
- Johns Hopkins: <https://guides.library.jhu.edu/lit-review/synthesize>

	Cornelsen	Stewart	Bruley	Scott
Alteration of women's roles because of WWII	<ul style="list-style-type: none"> - Women accredited the WASP program for opening new doors, challenging stereotypes, and proving that women were as capable as men (p. 113) - Women could compete with men as equals in the sky because of their exemplary performance (p. 116) - WASP created opportunities for women that had never previously existed (p. 112) - Women's success at flying aircrafts "marked a pivotal step towards breaking the existing gender barrier" (p. 112) 	<ul style="list-style-type: none"> - WAAC (Women's Army Auxiliary Corp) was 1st chance for women to serve in army, given full army status in 1943 as WAC (p. 28) - Needs of the war were so great that women's traditional social roles were ignored (p. 30) - Military women paid well for the time period and given benefits if they became pregnant (p. 32) - The 1940's brought more opportunities to women than ever before (p. 26) 	<ul style="list-style-type: none"> - Women given equal opportunities (p. 223) - Women joined workforce as a break from the ordinary to help the war (p. 220) - Unconscious decision to cross into male-dominated roles (p. 221) - Seized these new opportunities to bring about change (p. 230) 	<ul style="list-style-type: none"> - Women born in the 1920's found new doors open to them where they once would have encountered brick walls (p. 526) - Even women not directly involved in the war were changing mentally by being challenged to expand their horizons because of the changing world around them (p. 562) - War also brought intellectual expansion to many people (p. 557)
Hardships and oppositions women faced	<ul style="list-style-type: none"> - "From the outset male pilots resented women's presence in a traditionally male military setting" (p. 1113-4) - "The WASP were routinely assigned inferior planes that were later found to have been improperly maintained" (p. 114) - discrimination against WASP at every level of military service, women were only paid 2/3 of what men were for doing identical tasks (p. 114) 	<ul style="list-style-type: none"> - Women in the military given extensive physical and mental tests, but still discriminated against, ridiculed, and considered inferior to men (p. 29) 	<ul style="list-style-type: none"> - Women given unskilled labor positions by government because only seen as temporary workers, therefore no reason to train them (p. 221-2) - Women given less significant work and viewed as less intelligent and physically able (p. 224) - "The Church-Bliss diary reveals how dilution arrangements...ensured that women working in male preserves were prevented 	



THANK YOU!

Get In Touch

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