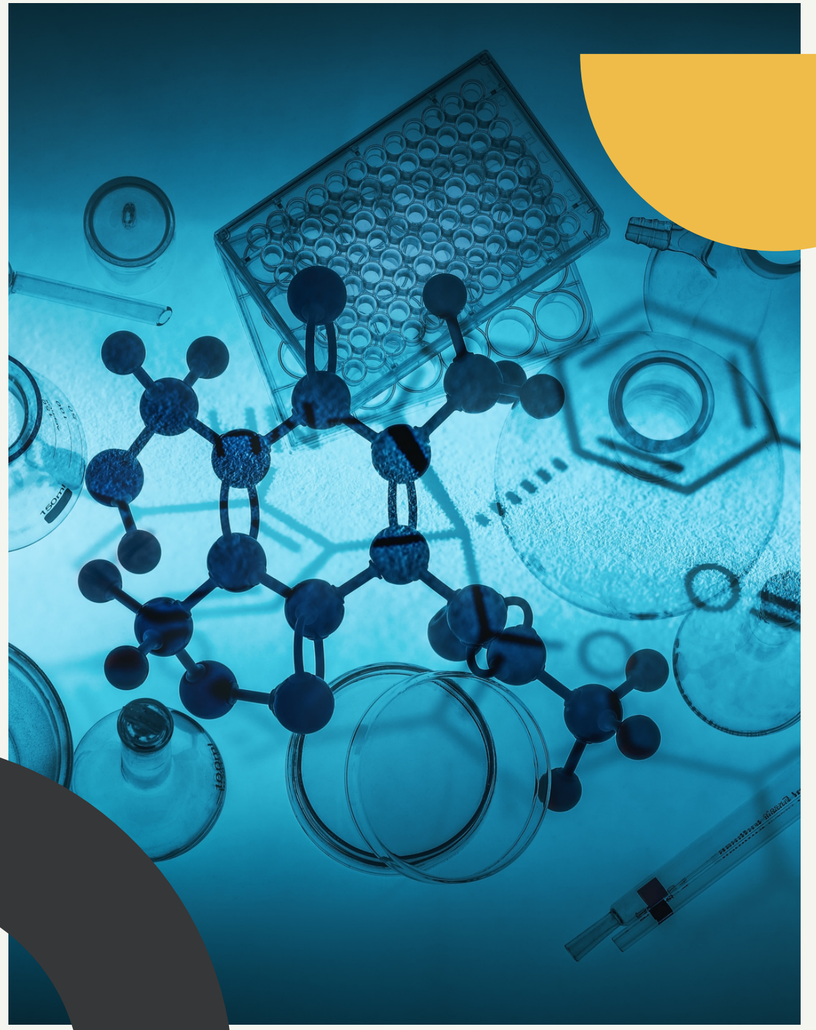
FST AU LIBRARY ORIENTATION

Nov. 8, 2022

Joanna Nemeth,
Reference & Instruction Librarian



Agenda

- Intro to AU Library_
- Developing Your Search
- Database Searching
- Citation Management Resources

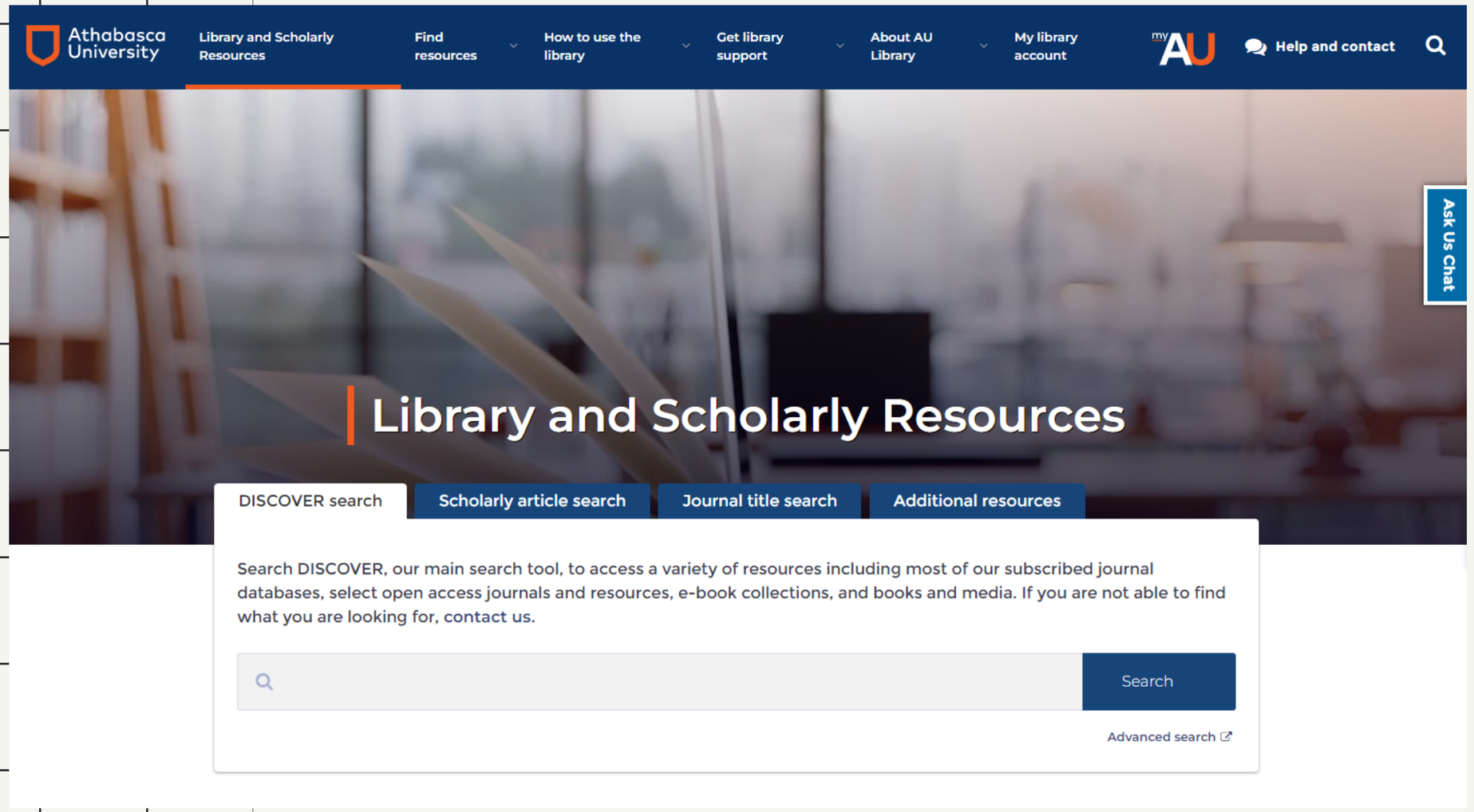
libguides.athabascau.ca/science_tech

Science & Technology Library Research Guide

FST_Handout_2022.docx

FST Library Handout

AU Library Website Orientation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How to use the library
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Borrowing resou

The collection has been developed in support of the programs and courses offered by AU, and it includes ebooks, books, journals, streaming audio and video materials, maps, theses and dissertations, and a variety of other materials.

AU's physical collection

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Requesting research assistance
Fixing technical problems
Frequently asked questions
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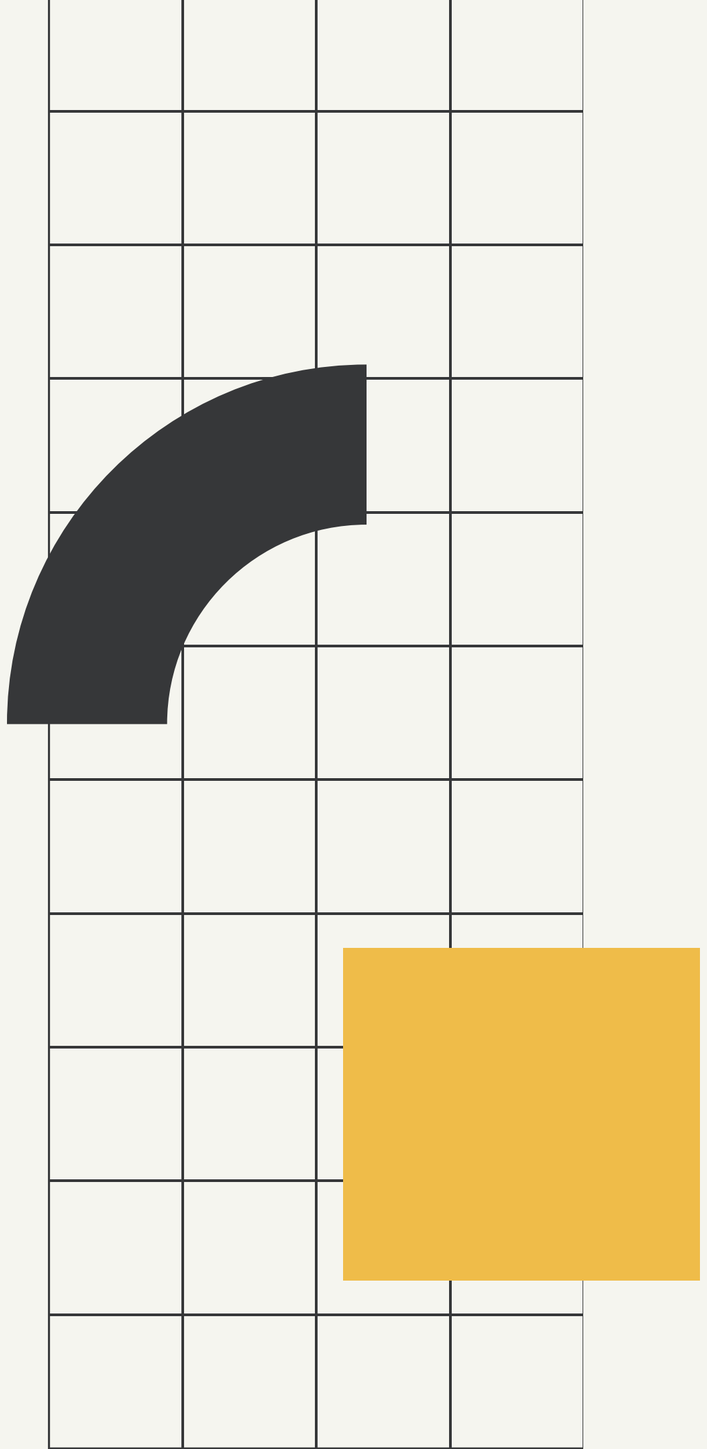
Library and Scholarly Resources

Research Data Management Support

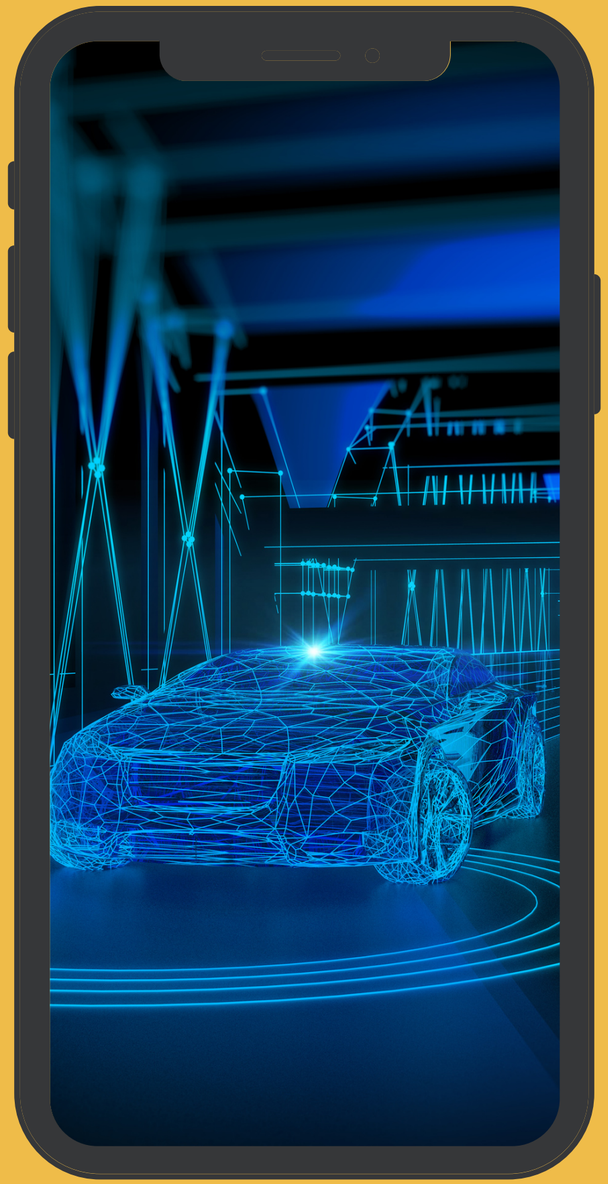
The library can provide RDM assistance with:

o Creating a data management plan
o Finding data sets to re-use (including Statistics Canada Data available through the Data Liberation Initiative)
o Selecting an appropriate data repository
o Preparing data for deposit



Searching

What role do ethics play in self-driving car design?



1

Ethics

Decision-making, accident, fatality, crash, moral, compliance

2

Self-Driving Car

Autonomous automobile, self-driving vehicle, driver-less car

3

Design

Manufacturing, engineering, compliance

OR

EXPANDS YOUR SEARCH RESULTS

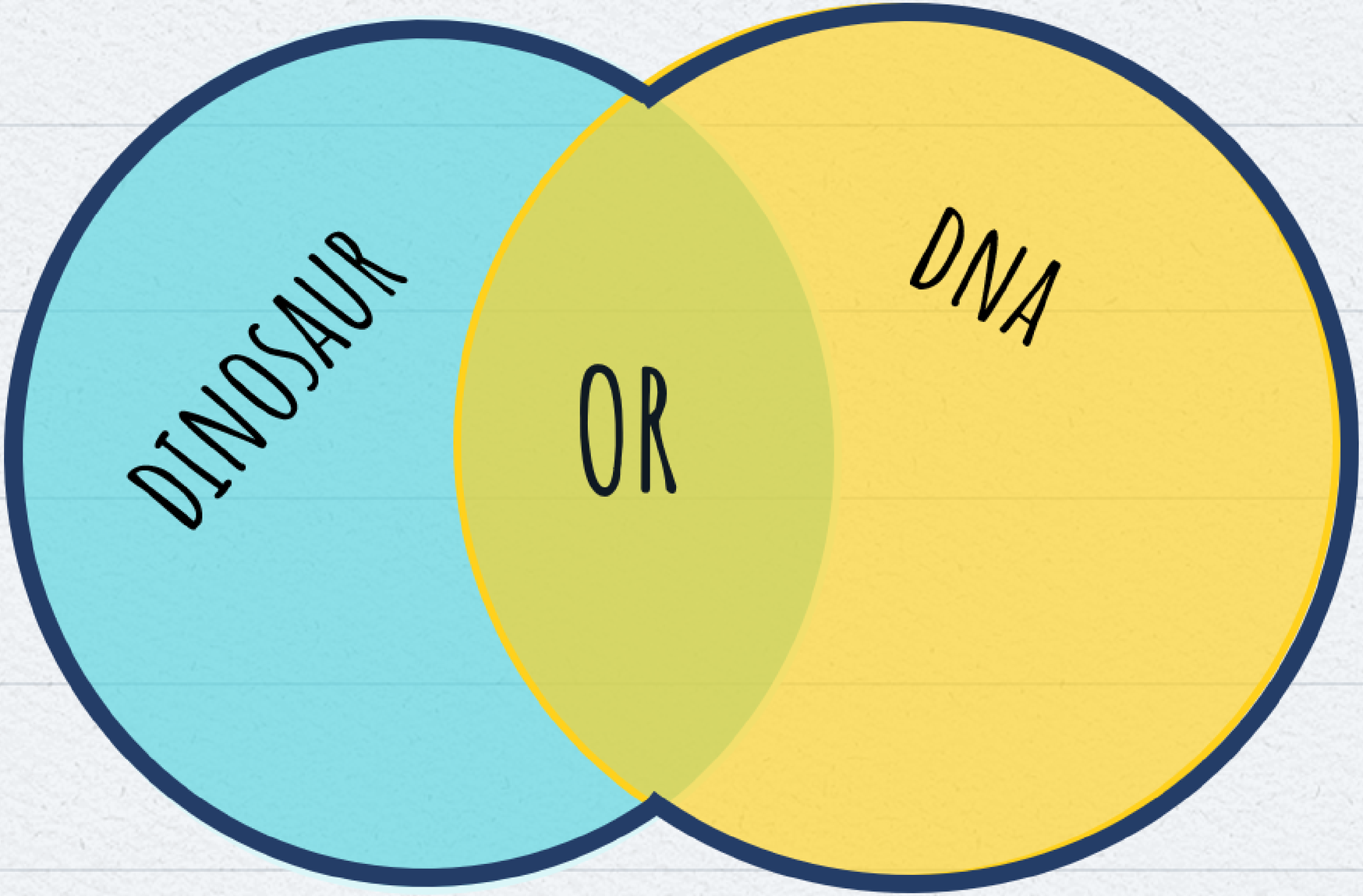
AND

LIMITS YOUR SEARCH RESULTS

NOT

LIMITS YOUR SEARCH RESULTS

May exclude useful results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OR
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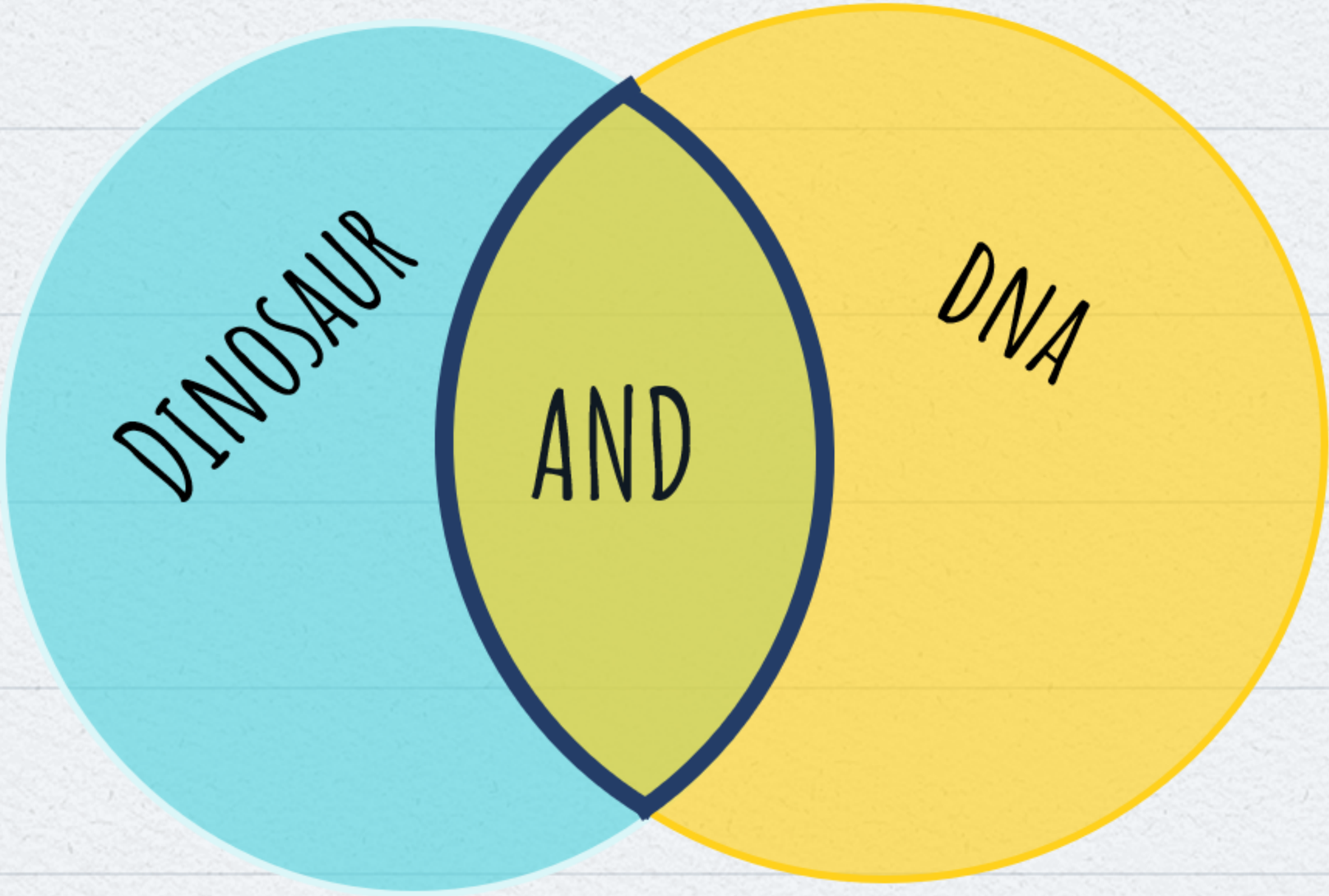
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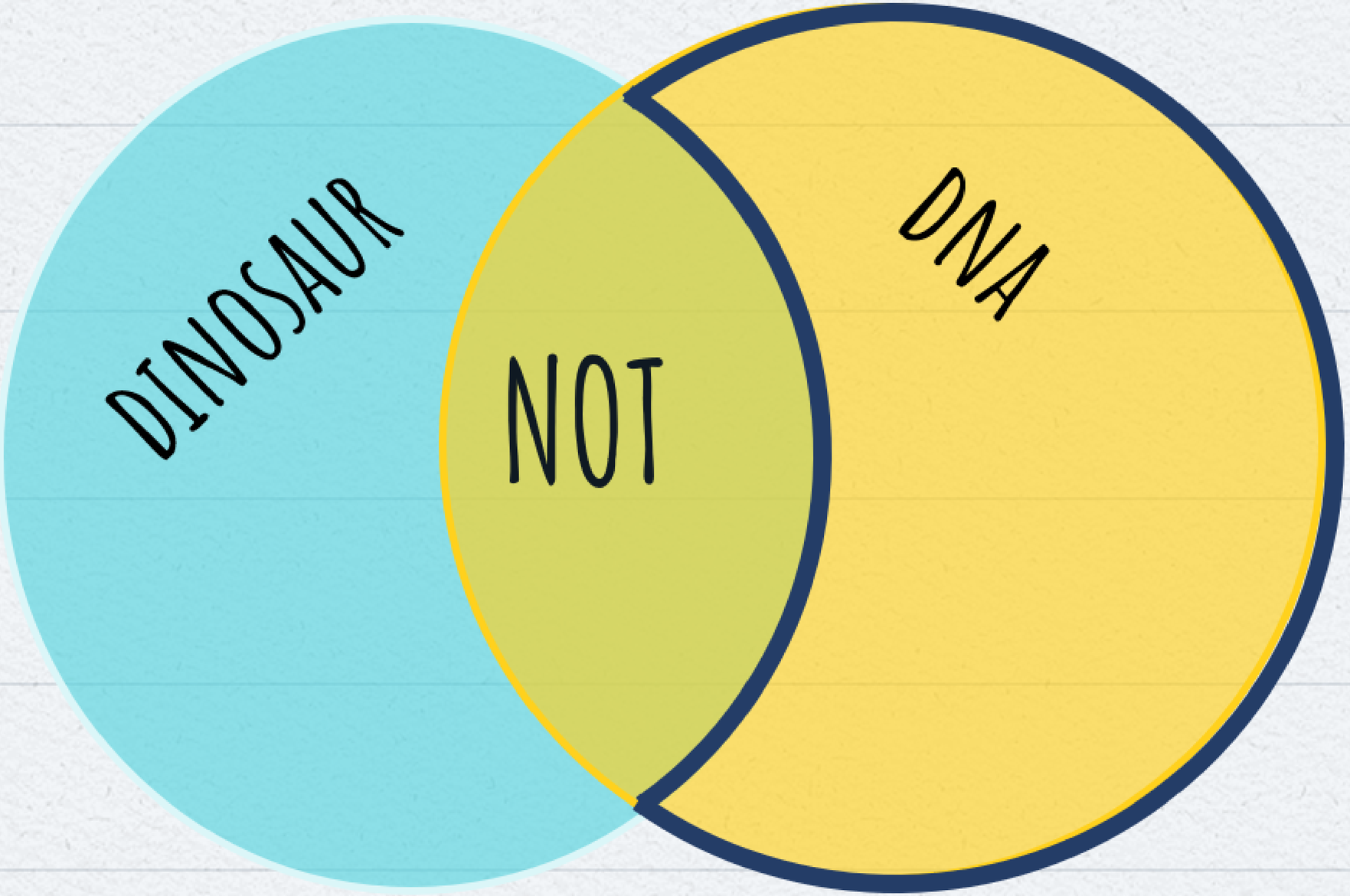
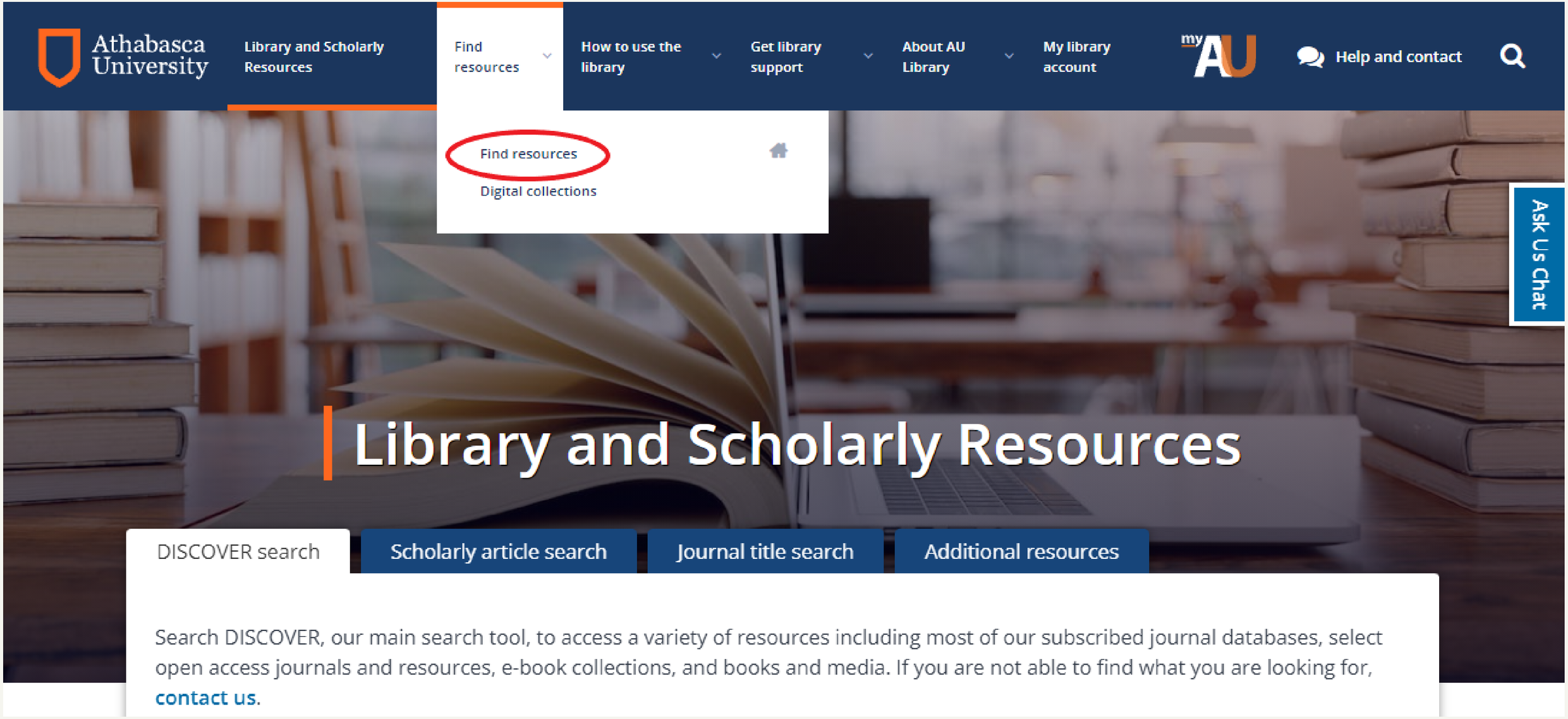

DINOSAUR
NOT
DNA

TIPS

- Include alternate spellings when necessary; for example, driverless or driver-less
- Using the truncation symbol * will search for all words with a similar root; e.g., ethic* = ethical, ethically, ethics, etc.
- Using “quotation marks” will search for phrases, e.g.; “telepresence robot”.
- Use round brackets (called nesting) to link your related concepts; e.g., ("self-driving car" OR "self driving car" OR "self-driving automobile“) AND (ethic* OR decision-making OR accident OR fatalit* OR crash OR moral*)

Comp-Sci Database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PUTTING IT ALL TOGETHER

("self-driving car" OR "self driving car" OR "self-driving automobile" OR "self driving automobile" OR "autonomous vehicle" OR "self-driving vehicle" OR "self driving vehicle" OR "driver-less car")

AND

(ethic* OR decision-making OR accident OR fatalit* OR crash OR moral*)

AND

(design OR manufactur* OR engineer* OR compliance)

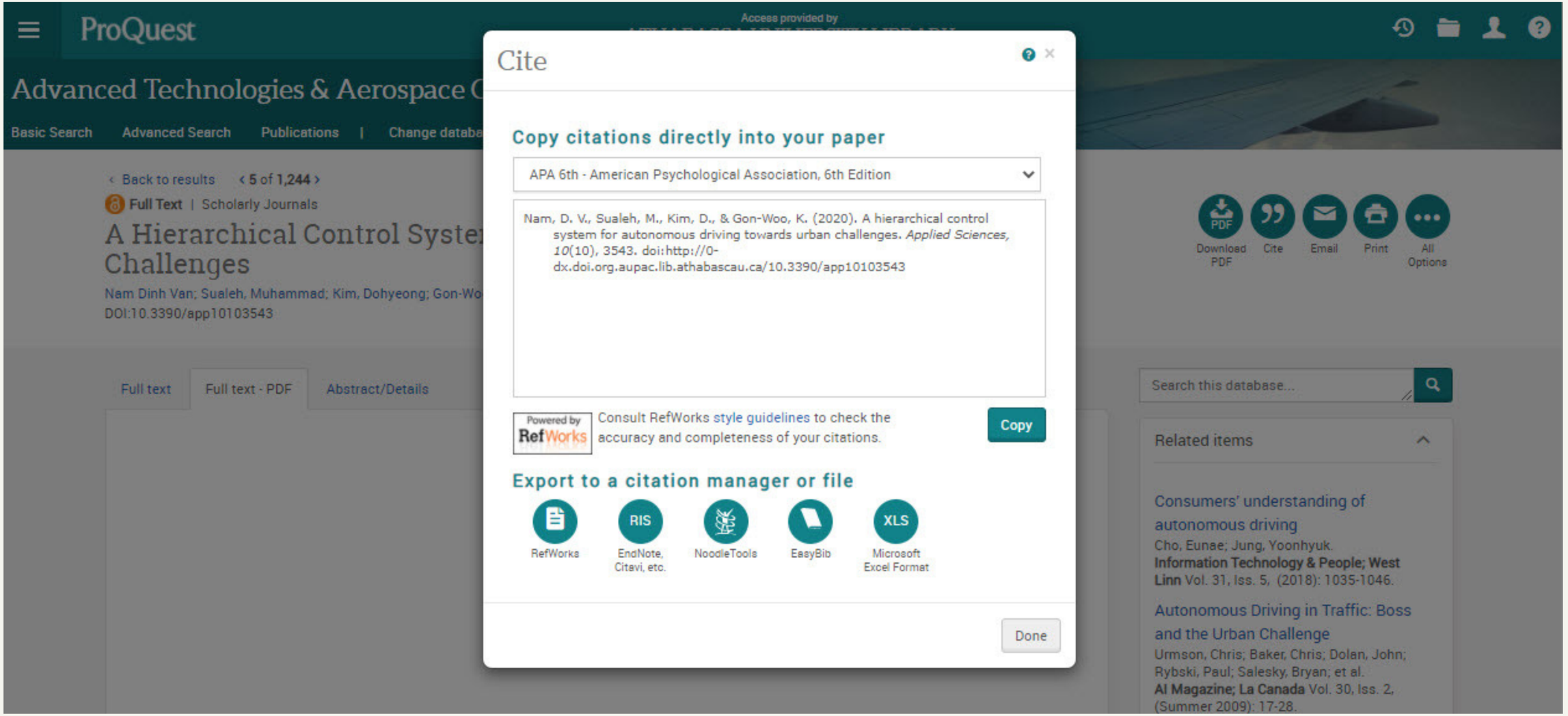
Research question:			
What role do ethics play in self-driving car design?			
Search Terms			
Concept 1	**Concept 2**	**Concept 3**	
ethics	self-driving car	design	
decision-making	autonomous automobile	manufacturing	
accident	self-driving vehicle	engineering	
fatality	driver-less car	compliance	
crash			
moral			
compliance			

Search strategies
1("self-driving car" OR "self driving car" OR "self-driving automobile" OR "self driving automobile" OR "autonomous vehicle" AND (ethic* OR decision-making OR accident OR fatalit* OR crash OR moral*) AND (design OR manufactur* OR engineer* OR compliance)
2("self-driving car" OR "self driving car" OR "self-driving automobile" OR "self driving automobile" OR "autonomous vehicle" AND (ethic* OR decision-making OR accident OR fatalit* OR crash OR moral*) AND (design OR manufactur* OR engineer* OR compliance) Limiters: scholarly articles, 2016-present
3("self-driving car" OR "self driving car" OR "self-driving automobile" OR "self driving automobile" OR "autonomous vehicle" AND SU (ethic* OR decision-making OR accident OR fatalit* OR crash OR moral*) AND (design OR manufactur* OR engineer* OR compliance) Limiters: scholarly articles, 2016-present
4

Databases searched	Strategy used	# of results retrieved	Comments
Advanced Tech & Aerospace	1	2693	need to limit more
Advanced Tech & Aerospace	2	906	need more ethics focus
Advanced Tech & Aerospace	3	284	
	4		

Kiss, G. (2020). Manchurian artificial intelligence in autonomous vehicles. *Journal of Intelligent & Fuzzy Systems*, *38*(5), 5841-5845. http://dx.doi.org/10.3233/JIFS-179671

Citation Management Tools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A Hierarchical Control Syste
Challenges
Nam Dinh Van; Sualeh, Muhammad; Kim, Dohyeong; Gon-Wo
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Consumers' understanding of autonomous driving
Cho, Eunae; Jung, Yoonhyuk.
Information Technology & People; West Linn Vol. 31, Iss. 5, (2018): 1035-1046.
Autonomous Driving in Traffic: Boss and the Urban Challenge
Urmson, Chris; Baker, Chris; Dolan, John; Rybski, Paul; Salesky, Bryan; et al.
AI Magazine; La Canada Vol. 30, Iss. 2, (Summer 2009): 17-28.
Cite
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APA 6th - American Psychological Association, 6th Edition
Nam, D. V., Sualeh, M., Kim, D., & Gon-Woo, K. (2020). A hierarchical control system for autonomous driving towards urban challenges. Applied Sciences, 10(10), 3543. doi:http://0-dx.doi.org.aupac.lib.athabascau.ca/10.3390/app10103543
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Done

Conclusion

The Library is here to help you

Handout

For links to helpful resources

Research Guide

To walk you through the process of using the library for your research

Thank you!

Contact me with your questions!