

Advanced Human-Computer Interaction

Week 5: Literature Review

Lecture Overview: Literature Review

- Topic 1 - Finding Information
- Topic 2 - Reading Effectively
- Topic 3 - Writing Effectively
- Topic 4 - Presentation Skills

Lecture Learning Outcomes

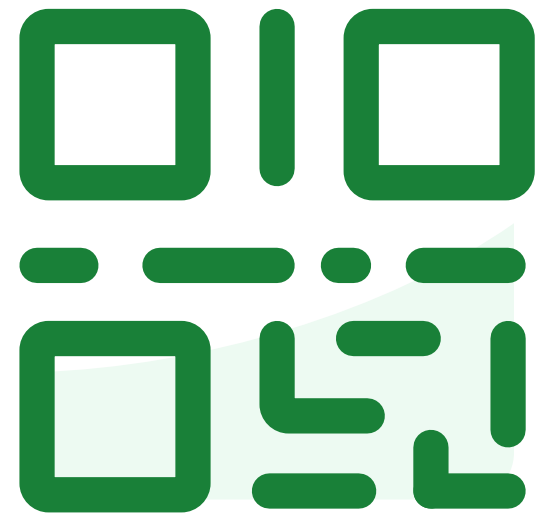
On completion of this lecture, students will be able to:

- *Identify keywords in your topic or research question*
- *Search for literature reviews, key studies and seminal works in your field*
- *Learn an approach to reading literature*
- *Write ideas and questions from your readings*
- *Learn an approach to presenting your literature review*



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How do you find academic information?

① Start presenting to display the poll results on this slide.

How do you find academic information?

- I google it
- I search the library website
- I ask friends and family
- I ask ChatGPT

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Why do you need a literature review?

① Start presenting to display the poll results on this slide.

Why do you need a literature review?

- Learn more about your topic
- Discover what is already known
- Identify gaps in research
- Learn about research methods in your field
- Understand where your contribution sits in your field

Topic 1: Finding Information



Topic
Selection



Conceptualise



Search



Evaluate



Filter



Appraise



Write

A literature review:

- Provides a subjective summary of literature on a topic
- Includes a detailed search strategy
- Can be produced by a single person, open to bias
- Weeks or months to produce

A systematic review:

- Brings together results of studies to answer a specific question
- Involves a detailed protocol for searching eg: PICO
- Usually involves 3 or more people to eliminate bias
- Months or years to produce

Assignment - **literature review**:

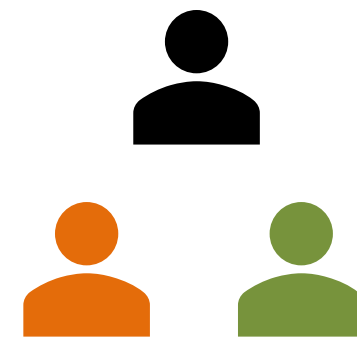
- Topic will be the same topic area as the topic selected for your group project
- Your literature review will focus on 2 (two) articles
- Both articles must be from HCI publications
- Ideally each group member must choose different articles to cover the adequate breadth of your topic
- Articles should be recent if possible and from 2010 onwards
- Articles must be peer-refereed



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Peer Workshop



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Advanced Human-Computer Interaction

Topic 1: Finding Information



Identify Keywords: What are the keywords or topics in the sentences below?

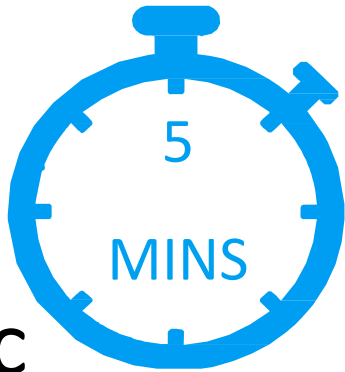
Can immunotherapy be used to treat peanut allergy in children?

Can **immunotherapy** be used to treat **peanut allergy** in **children**?

Environmental impact of refuse dumps in Auckland?

Environmental impact of **refuse dumps** in **Auckland**?

ACTIVITY: Write down your own research question and identify keywords or topics



Identify Keywords: Add synonyms or alternative phrases to research question / topic

RQ: Can immunotherapy be used to treat peanut allergy in children?

	Topic 1	Topic 2	Topic 3
Keywords →	Immunotherapy	Peanut allergy	Children
Synonyms ↓	Therapy	Allergy	Child

Identify Keywords: Add synonyms or alternative phrases to research question / topic

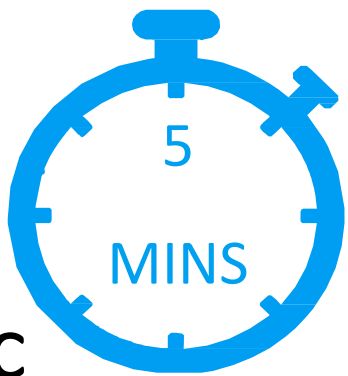
RQ: Can immunotherapy be used to treat peanut allergy in children?

	Topic 1	Topic 2	Topic 3
Keywords →	Immunotherapy	Peanut allergy	Children
Synonyms ↓	Therapy	Allergy	Child
	Treatment	Food Allergy	Infant
		Nut Allergy	Preschool Child
		Hypersensitivity	

Search for literature: Add synonyms or alternative phrases to research question / topic

RQ: Can immunotherapy be used to treat peanut allergy in children?

	Topic 1		Topic 2		Topic 3
Keywords →		AND		AND	
Synonyms ↓	OR		OR		OR
	OR		OR		OR



Identify Keywords: Add synonyms or alternative phrases to research question / topic

RQ: Can immunotherapy be used to treat peanut allergy in children?

	Topic 1		Topic 2		Topic 3
Keywords →	Immunotherapy	AND	Peanut Allergy	AND	Children
Synonyms ↓	OR		OR		OR
	Therapy		Allergy		Child
	OR		OR		OR
	Treatment		Food Allergy		Infant

Computer Science – HCI example

Too broad:

Human-Computer Interaction

Too narrow:

How does Human-Computer Interaction impact productivity of construction professionals with tablets on site?

Just right:

“Human-Computer Interaction” and “construction professionals”

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General information



HCI Specific



Google
Library Databases
Librarian
Physical Books

Google Scholar
Author homepages
Research Groups
Relevant Conferences
Relevant Journals

ACM Digital Library
Web of Science
Scopus
Science Direct
IEEExplore

Assignment - **literature review**:

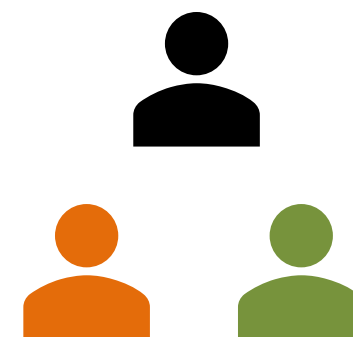
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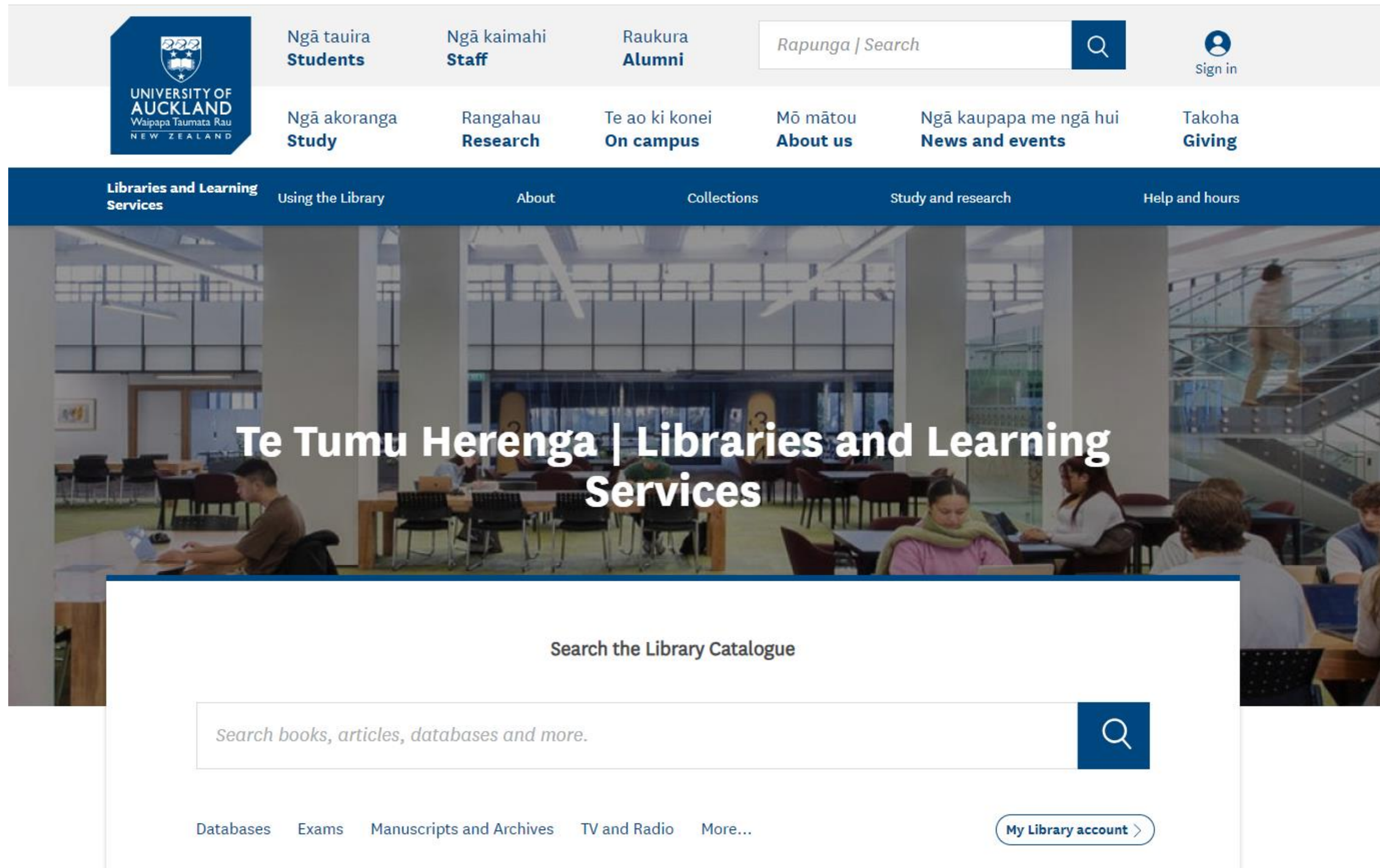


Peer Workshop



Video

Finding information: Navigating the Library Website: library.auckland.ac.nz



Finding information: What makes a good article?

Assignment - **literature review**:

- Is it an HCI publication?
- Is it from 2010 onwards?
- Articles must be peer-refereed?
- Has it been cited? How many times?
- Are the cited publications relevant?
- Has the author published on this topic before?
- Are the authors part of a larger research group?
- ?



Finding information: Navigating the Library Website: library.auckland.ac.nz

Think Pair Share:

In pairs, use your concepts table and search one of the databases listed below and find one article that is suitable for your topic

- [ACM Digital Library](#)
- [IEEE Xplore](#)

Record EVERYTHING you do
(search terms, results, cites, cited by etc)

