

Research
where to start, how to start, help....

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June 19, 2017





Key Points

1. Supervisor:
 - Who to work with?
 - Process for approaching them
 - Area of study/area of interest
2. Doing the Research
 - More Complex Searching
 - Getting & Reading papers
 - Organizing papers & ideas



Choosing a Potential Supervisor

- <https://www.mie.utoronto.ca/mie/faculty/amon>
- <https://scholar.google.ca/citations?user=Dgd064MAAAAJ&hl=en&oi=a0>
- Don't forget Scopus...
- Know your goals and expectations; Do you want to work in academia or industry? Do you like fundamental or applied research?
- Talk to the previous students (\$\$\$)



What are you interested in researching?


- Study Potential Areas of Interest
 - Useful before you find a supervisor and when you start your research
- Overview of Field of Research
 - Review articles, Handbooks (Knovel), Encyclopedias


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More Complex Searching


- Key Engineering Databases and how to access them -
<http://engineering.library.utoronto.ca>
- Keyword searching
 - Boolean logic, synonyms, limits/refining


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Keywords



- Significant or descriptive words/phrases
- Hardest part of the search

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How to Search...



- Synonyms are the key to finding articles
- Boolean logic is the key to using synonyms
- BEDMAS



Synonymize Your Search Terms



Concepts	Related term	Related term	Related term

(OR) AND (OR)



More Complex Searching

- Key Engineering Databases and how to access them - engineering.library.utoronto.ca
- Keyword searching
 - Boolean logic, synonyms, limits/refining
- Forwards, backwards and sideways searching



Getting & Reading Papers

- I found a paper I want, now how do I get it?
- TIP: Take notes on results sections AS you read the papers so don't forget in the future



Organizing Papers AND Ideas


- Citation management software in a nutshell:
 - Gather and create a personal database of papers
 - Create reference lists/bibliographies within MS Word in ANY citation style






Summer Research vs. Graduate School

<i>Differences</i>	<i>Similarities</i>
Time	Methodology
Level of Expertise	Validity and Credibility
Responsibilities	Professional Behavior
General Approach	

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 10th UoERD 2017
