## Literature Review (LR)

- In general, students don't understand the purpose of investigating the literature
- Its function the more one knows the more knowledgeably one can approach the problems
- Re+view = look again at what others have done in areas that are similar, though not necessarily identical to, one's own area of investigation
- As a researcher, you should know the literature about your topic *very*, *very well*
- Many benefits from review

#### Benefits of Literature Review

- <u>It can offer new ideas</u>, perspectives, and approaches that may not have occurred to you
- It can inform you about other researchers who conduct work in this area <u>individuals whom you may wish to contact</u> for advice or feedback
- It can show you how others have handled <u>methodological</u> and design issues in studies similar to your own
- It can reveal sources of data that you may not have known existed
- It can introduce you to <u>measurement tools</u> that other researchers have developed and used effectively

#### Benefits of Literature Review

- It can reveal methods of dealing with problematic situations that may be <u>similar</u> to difficulties you are facing
- It can help you <u>interpret and make sense of your findings</u> and, ultimately, help <u>you tie your results</u> to the work of those who have preceded you
- It will bolster your confidence that your topic is one worth studying, because you will find that others have invested considerable time, effort, and resources in studying it

#### Benefits of Literature Review

- For PhD, the second last benefit is of particular value
- Theses are presumed to be original investigations into <u>unexplored area</u>
- Candidates thinking a particular problem to be unoccupied territory has been so well tilled by others – practically farmed out
- Important you should know where others have been and what activities they have been engaged

### How to Begin

- Library catalog Locate books relevant to your research topic – may be general textbooks in your discipline or collections of articles written by a variety of experts in the field
- Indexes and Abstracts Begin with periodical in your academic area – Computer Science
- Online databases Access to the literature which contain enormous collections of citations or abstracts related to various subjects and disciplines

### How to Begin

In addition to using the library catalog, indexes and abstracts, and online databases, the following strategies are suggested

- Looking at government publications
- Surfing the World Wide Web, and
- <u>Using the citations and reference lists of those who have gone before you</u> track down *any references that you see cited by three or more other researchers* because such references are clearly influencing current work in your field and should not be overlooked. Whenever possible, *go to the original source and read it yourself* since most authors misrepresent the work of a particular researcher in the same, particular way; apparently, they are reading one another's descriptions of that researcher's work rather than reading the researcher's own words!

#### How to Begin

- Make as many copies of the bibliographic items as necessary
- Be systematic and thorough
- Relate bibliography to problem

## Conducting a Literature Search

- Write the problem in its entirety at the top of the page or computer screen
- Write down each subproblem in its entirety as well
- Identify the important words and phrases in each subproblem
- Translate these words and phrases into <u>specific topics</u> that you must learn more about. These topics become your "agenda" as you read the literature
- Go to the library to seek out resources related to your agenda
- 6. Read!

- Too many literature reviews do nothing more <u>than report</u> what other people have done and said
- We learn nothing new from such a review; we'd better off reading the original articles for ourselves
- In a good literature review, the researcher doesn't merely report the related literature
- He or she also <u>evaluates</u>, <u>organises</u>, <u>and synthesizes</u> what others have done
- Do not only read other people's work but <u>you must also</u> <u>critically evaluate</u> their methods and conclusions

- Never take <u>other people's conclusions</u> at face value; determine for yourself whether their conclusions are justified based on the data presented
- In addition to evaluating what you read, you must also *organise* the ideas you encounter during your review
- <u>The subproblems</u> within your main problem <u>should</u>, in many cases, <u>provide a general organisational scheme</u> you can use
- Looking at <u>how other authors</u> have organised literature reviews related to your topic may be helpful as well

- Finally, and perhaps most importantly, you must <u>synthesize</u> what you have learned from your review
- In other words, you must pull together the diverse perspectives and research results you have read into a cohesive whole
- Here are some examples of what you might do:
- Compare and contrast varying theoretical perspectives on the topic
- 2. Show how approaches to the topic have <u>changed over</u> <u>time</u>

- 3. Describe general trends in research findings
- Identify <u>discrepant or contradictory</u> findings, and <u>suggest</u> <u>possible explanations</u> for such discrepancies
- Identify general themes that run throughout the literature
- When you write a literature review that does such things, you have contributed something new to the knowledge in the field even *before* you have conducted your own study
- In fact, a literature review that makes such a contribution is often publishable in its own right

#### Writing LR - Guidelines

- 1. Get the proper psychological orientation
- 2. Have a plan
- 3. Emphasise relatedness
- 4. Give credit where credit is due
- 5. Review the literature. Don't reproduce it!
- 6. Summarise what you have said
- Remember that your first draft will almost certainly NOT be your last draft
- 8. Ask others for advice and feedback

## Psychological Orientation

- Get the proper psychological orientation
  - Be clear in your thinking know precisely what you are attempting to do
  - LR is a discussion of the studies, research reports, scholarly or broad spectrum writing
  - Consider discussion with a peer about what others have written in relation to what you plan to do

## Psychological Orientation

- This view will help develop proper psychological perspective and see effort in relation to other researchers
- Students consider LR as an unnecessary appendage (something added to or joined to something larger), eager to get on with the research
- To the contrary, a conscientious and thorough review of the literature related to your problem can open up <a href="mailto:new">new</a> <a href="mailto:possibilities">possibilities</a> and new ways of looking at the problem that might have been totally overlooked otherwise

#### Have a Plan

- Have a plan Writing a review of the related literature takes planning and organisation
- This effort requires thought, structure, and coherence (connected logically; clear and easy to understand)
- Should outline what you plan to say before beginning writing the literature review
- The problem itself should suggest relevant areas for discussion and indicate the direction

#### Have a Plan

- The classic, historically oriented studies are the discrete areas within which your problem lies
- For example, the laser was built from exploring relativistic quantum mechanics and the nature of matter and light in electromagnetic fields
- Begin discussion from a comprehensive perspective, like an inverted pyramid – broad end first, then deal with more specific ideas and studies that focus in more and more on your own particular problem

### Emphasise Relatedness

- Emphasize relatedness <u>keep your reader constantly aware</u> of how the literature you are discussing is related to your problem
- Point out precisely what the relationship is
- Literature reviews should <u>never be a chain of isolated</u> <u>summaries of the writings of others</u>
- Worst form of discussion, Jones says ...; Black says ...; Brown says ...; Smith says ... Such is not a discussion of related literature; no attempt is made to demonstrate the relatedness of the literature to the problem being researched
- Whenever you cite a study, explain clearly how it relates to your own research problem. Make yourself accountable for what you say

### Emphasise Relatedness

- Procedures recommended for avoiding the misunderstanding of the purpose of LR:
  - 1. Write your research problem prominently at the top of page. In this location, it will be a constant reminder of the central axis around which everything else revolves
  - 2. Divide the problem by numbering its various subparts
  - 3. Divide the remainder of the page into two columns
  - 4. Gather together all the citations that refer to a particular aspect of the problem so that you have as many groups as you have subdivisions of your main problem
  - 5. In the left-hand column, list each study in your review

### Emphasise Relatedness

- 6. In the right-hand column, opposite each study, note the particular subdivision of the problem to which the study relates and note the rationale for including it
- 7. Add additional pages or table rows as you need them until you have listed every study
- 8. Write the review. Head each section with wording containing the identical words found in the statement of problem

#### Give Credit where Credit is Due

- In writing the literature review, always, *always* credit those authors whose ideas you are using or whose research results you are reporting
- The specific way in which you do this, e.g. with footnotes or with citations in parentheses in the text itself
- You may even want to present other authors' actual words, either within quotation marks (for a phrase or sentence) or in an indented passage

## Don't Reproduce the Literature!

- Review the literature. Don't reproduce it writing LR is one of the most challenging works—requires that you keep a clear focus
- Not simply quoting long passages or cite at length the words or ideas of others
- Students consider LR as merely a conventional filler – something that everyone does

## Don't Reproduce the Literature!

- As important as what others say about their research, and perhaps even more important, is what you say about their research
- Your emphasis should always be on how a particular idea or research finding relates to your own problem something that only you can discuss
- Advice guidelines
  - 1. Present your own discussion
  - 2. Paraphrase (precis (<u>short statement of the main points of a speech or piece of writing</u>), resume (<u>summary</u>), give a synopsis, an epitome (person or thing that is the perfect example of a quality or type))
  - 3. Use short, direct quotations if necessary
  - 4. <u>Long quotations are a last resort.</u> Use them only for a very good reason for instance, when the specific words that an author uses are as important as the ideas that the author presents

#### Summarise What You Have Said

- Every discussion of related literature should end with a brief summary section and sets forth its significance in terms of the research problem
- Very important question to ask and continually is "What does it all mean?"
- Many studies end in a fuzzy conclusion without coming to any focal point
- The heading "Summary" should condense your review into a synopsis of how the existing literature on your topic contributes to an understanding of the specific problem you are trying to solve

#### First Draft is Not Last Draft

- You should expect to write multiple drafts of your literature review
- In fact, writing the first draft will help you identify parts of the literature that are still unclear to you and places where you may need additional information or references
- Even when you have obtained all the information you need for a complete review, you will typically not be able to express your thoughts with complete clarity the first time around

## Ask Others for Advice and Feedback

- Ask others to read your rough draft of the LR, talk with others about what you have found, and get ideas about additional avenues you may need to explore
- Use e-mail to contact people who have an interest in this area of study (e.g., contact the authors of studies that have influenced your own work)
- Explain where you are working, send them a copy of what you have written, and ask for their feedback and suggestions
- You will be amazed at how helpful and supportive people can be when you tell them that you have read their work and would appreciate their opinion