

Hermeneutics

- Observe the use and operation of an artifact in its intended working environment.
- Advantage
 - Overcome some limitation by empirical hypothesis testing and formal proof.
- Limitation
 - Difficult to control env.
 - Ex Duplication of conditions.
 - Ex Observation induced change to env.

Research Skills: Time Management

- Two or more years seem a very long time.
- Components of a graduate program.
- To most students, most tasks are encountered the first time.
- Things don't always go as planned.

Components of a Graduate Program

- Course requirements.
- Survey literature.
- Write up research proposal.
- Conduct research
 - Design and analyze algorithms (Propose HCI methodology)
 - Code and debug prototype
 - Experiment and result interpretation (Usability testing)
- Write up thesis.
- Prepare and defend thesis.

Effective Time Management

- Set timely objectives.
 - Plan milestones either forward or backward.
 - Divide each task into weekly or biweekly subtasks.
 - Decompose each subtask into daily goals.
- Add pressure to yourself.

Research Skills: Documenting Research

- You may be inclined to focus on 'doing' research and leave 'writing' to the time when research is done.
 - Ideas generated in discussions may be forgotten when careful analysis is needed.
 - Abandoned partial solutions may soon disappear from memory but are valuable for motivating the final solution.
 - Routine documentations make thesis writing a much less daunting task.