THE RESEARCH PROPOSAL

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The Purpose of the Research Proposal

- Typically, the amount of money and resources available to an institution or company limits the amount of research projects that can be carried out.
- The purpose of a research proposal is to convince a funding agency to support your proposed research, rather than other possible research projects.

The Purpose of the Research Proposal

- A research proposal should convince others that the research
 - addresses an important question/issue and is therefore significant and necessary
 - can successfully be carried out by the individuals proposing it
 - Do individuals demonstrate knowledge of background and related work?
 - Are methods clearly described?
 - Do invididuals have a track record in this or similar areas?

Research Proposal Outline

Abstract

 A concise summary of the research, containing background, significance, and proposed methods, in no more than 150 words

Background and Significance

- Significance: Why is the proposed work important and needed? Clearly state the objective of the proposal.
 What, specifically, will be accomplished? List any hypotheses, if applicable.
- Background: What does the reader need to know to understand the proposed research? Even if the proposal is read by a computer scientist, not all computer scientists have the same background.

Research Proposal Outline (continued)

Methodology

- How will the research be carried out? What equipment/tools are necessary?
- What is the timeline for the proposed work?
- Statement of Qualification
 - Why are you qualified to carry out the proposed research?
 - For this proposal, you may indicate your personal interest in the research and why it will advance your academic / career goals

Research Proposal Outline (continued)

- Expected Outcomes
 - What are the expected outcomes of the proposed work?
 - What tangible objects will be produced? Software?
 Research Paper? Poster?
- Bibliography
 - List of references cited in your proposal
 - Your proposal should contain references for at least 6
 research articles, and may contain more.