MATH 750 / DATA 750 / CMPS 750 - DMC Master's Thesis

Project Proposal Template

Important Notes:
- This proposal must be approved by the thesis advisor and two readers prior to registering for MATH/DATA/CMPS 750.
- In order for a proposal to be approved prior to registration, the student must have started a dialog between the advisor and readers at least 4 weeks prior to registration. It is recommended that students initially contact (select) their advisor during the early part of the preceding semester to begin the discussion.
- Projects that require the collection or evaluation of personal information may require approval from the College's Institutional Review Board (IRB) - which must be applied for prior to registration.

AI policy for DMC Master's Thesis

Generative AI programs e.g. ChatGPT may be helpful to generate ideas and brainstorm. However, you should note that the material generated by these programs may be inaccurate, incomplete, or otherwise problematic. Beware that use may also stifle your own independent thinking and creativity.

You may not submit any work generated by an AI program as your own. The use of generative AI in writing a master's thesis is considered fabrication under the [Academic Integrity Policy](#) and is prohibited unless specifically authorized by members of the thesis committee for use within the approved scope.

Student Name: _____

Semester of Thesis: _____

Thesis Advisor: _____

Signature _____ Date _____

Thesis Reader 1: _____

Signature _____ Date _____

Thesis Reader 2: _____

Signature _____ Date _____

Proposal Narrative

Please answer each of the following questions in no more than 300 words (each):

1. What problem are you trying to solve?
2. Why is the problem worth solving? What industry, research question, or group would benefit from the outcome of the thesis project?
3. Why is the problem hard? What are the key challenges that make the project / solution / deliverable impactful?
4. Does your project require data? If so, what data are you using? Do you have access or permission to use this data?
5. What is the specific deliverable?
6. What are the ethical considerations around your project? How might various stakeholders benefit from or be harmed by your work?
7. What are the core Mathematical, Data Science, and/or Computational skills that you will need to complete your thesis?
8. What are the specific milestones you expect to accomplish, and when? Your proposal should have a project plan, outlining specific steps you will take to complete the project and a timeline for the work.