

Intro to CyberSecurity – Spring 2023

Research Project #1: Proposal

Due: Monday, April 24th 2023

Highlights

- Expected contribution towards the final score: 4%.
- You should work on this task individually or in a team of up to 5 members (highly recommended). One submission per team.
- **Submit your work in PDF as a group** through the USTC Blackboard
 - Choose one group named as “Research Proposal [1-100]” on Blackboard (工具->小组) , and submit as the group, which makes it easier for the teaching team to register your score.

As the 2nd step of your research project (accounting for 20% of the final score), **you need to formally propose your project.**

The following elements are suggested to be included in your project.

- The research questions you intend to pursue.
 - **Different from the pre-proposal, you should focus on ONLY one topic**
 - **Please well define the research questions your project aims to answer**
 - **For each question, elaborate why it is not well answered in previous studies**
 - The motivations, i.e., why does this topic and the respective research questions have their values?
- A summarization of existing works in related areas.
 - Please collect and review **academic works**
 - Blog articles can be included as long as what is covered is original studies of the respective blog authors
- The planned methodologies.
- The expected results.

The following format is suggested. You don't have to follow it exactly. Some sections may not be needed, or additional sections may be necessary. In all cases, please type and paginate your proposal report!

1. Abstract. It comes first in your report, but you write it last.
2. Motivations/related works. Include background materials, and discuss the scope and limitations of existing works.
3. Research problems/goals.
4. Methodologies to be used.
5. Expected results
6. The execution plan
7. References (must always be included), annotated if possible.

Also note that your proposal report should be readable and self-contained. Also, it should be written with the readers in mind. Any class member should be able to understand your report/.

Therefore, you should include adequate references and/or background materials and you should use tables, diagrams, graphs, figures, and portions of printouts to enhance readers' comprehension of your proposal.

Ping the instructor (Xianghang Mi) as a team if you need to discuss potential research ideas.