

# Projects 2021

## Introduction

Students will do this project in groups of 2 (with permission, a group of 3 might be allowed). Each group should choose a topic (or develop one on their own). Each topic can be investigated by only a single group –first come, first serve. To indicate which project you want to do, please reply in the chat channel.

Note that the projects themselves are all open-ended.

## Report Structure:

### Introduction:

This should include an introduction to the question you are looking into. As the project are often flexible and open-ended, the introduction should be specific to what you did, and clearly indicate what question **your report** will answer. It should also include references to the most important literature on the topic.

### Model:

A clear description of the model you will be studying, including all parameters. Make sure all variables are defined.

### Methods:

A clear description of the methods you used in the report.

### Results and Discussion:

A clear description of your results, including figures. Your work should always be compared to literature, and should include a discussion on what you were expecting in comparison to what you found.

### Conclusion:

A summary of your main results, and an outlook on what you think might be interesting to look into in the future, or future improvements.

\*\* Note that depending on the topic, it might also be good to include a “Theory” section. For some reports, it might be sufficient to include the theory in the intro and results sections. This depends on how much background theory you use in your report.

## Grading the Report:

The report will be graded with the following topics in mind:

- Clearly stated goal
- Clearly presented introduction
- Clear introduction to any theory used in the report
- Clear introduction of model, and all relevant parameters
- A clear description of the methods used in the project
- Results: validity/accuracy, presentation, description
- Discussion: clear, logically based on the results, connection to previous literature
- Conclusion: clear, based on rest of report
- Outlook: logical
- References: are all important papers referenced? Is the referencing done correctly?
- Language: Is the report clearly written? Grammar, etc.
- Figures: Are figures clear, readable, well described in the text, axes clearly labeled
- Units: Are units included everywhere, and included correctly? (Dimensionless units are usually preferable.)

# Grading for Report

The report will be graded with the following topics in mind:

- Clearly stated **goal**
- Clearly presented **introduction**
- Clear introduction to any **theory** used in the report
- Clear introduction of **model**, and all **relevant parameters**
- A clear description of the **methods** used in the project
- **Results**: validity/accuracy, presentation, description
- **Discussion**: clear, logically based on the results, connection to previous literature
- **Conclusion**: clear, based on rest of report
- **Outlook**: logical
- **References**: are all important papers referenced? Is the referencing done correctly?
- **Language**: Is the report clearly written? Grammar, etc.
- **Figures**: Are figures clear, readable, well described in the text, axes clearly labeled
- **Units**: Are units included everywhere, and included correctly.