# COMP-579: Reinforcement Learning - Project Description

The course project can be carried out in teams of up to 3 students and its goal is to allow you to explore more in-depth a topic of your choice. Appropriate project topics include:

- Re-implementing and reproducing the results in a paper

- Ablation studies on an algorithm, to better understand its properties

- Comparing different algorithms on an interesting benchmark or dataset

- Implementing and testing new algorithmic variations

The submission for the project consists of:

- A short paper (up to 4 pages in NeurIPS format, excluding references) which includes: a short abstract summarizing the content of the project and the role of each team member (if appropriate), an introduction section which motivates why your project is interesting, a background section to define anything that you will use which *goes beyond the course material*, a methodology section which explains what you will do, experimental results section containing relevant plots and their description, a short conclusion and future work, which explains what other interesting things could be tried, and references (these do not count in the page limit)

- Any notebooks or relevant code

- A short video presentation (at most 4 minutes) which explains the highlights of your project)

The project can be submitted without penalties until April 24, 11:59pm. If you have doubts about whether your project topic is appropriate, please contact Doina.