

**Logistics**

Your paper should be submitted as a PDF file via Gradescope before midnight on the day of the last lecture (Tuesday, May 14). For group projects, each group member should make a separate submission, with all group members submitting the same document.

Your paper should be at most ten pages in length (not including references or a statement of contributions), using at least 11-point fonts and at least 1-inch margins. You should prepare your paper using L<sup>A</sup>T<sub>E</sub>X; you may want to use the template provided for the project proposal (available on the course website). If necessary, you can draw quantum circuits using the Qcircuit package. Please feel free to ask questions about L<sup>A</sup>T<sub>E</sub>X (or any aspect of your project) during office hours or on Piazza.

**Content**

Your paper should provide a clear, accessible discussion of your topic. Just as for your class presentation, you should explain what the topic is about, motivate why it is interesting, explain the main results, and identify areas for possible future investigation. However, the paper should describe the project in more depth, including some discussion of technical details.

If your project involves software (either for a classical computation related to quantum information or an implementation of a quantum algorithm), you should point to an online repository containing the source code and any associated data. For such a project, your paper should describe any significant challenges you encountered, explain implementation choices that you made, describe your process for testing and evaluating the software, and present results on the performance of your implementation.

As for your project presentation, your audience consists of your fellow students in the class. You can assume that your audience is familiar with the course material, but should not assume they have any specialized knowledge of computer science, physics, or other topics that are not prerequisites for the course.

If you are doing a group project, please include a brief statement describing what each team member has contributed to the project. This statement should be placed at the end of the report and does not count toward your 10-page maximum.

**Evaluation**

The grade for your paper will be based on the following aspects:

- *Scientific content (25 points)*
- *Clarity (25 points)*
- *Presentation (15 points)*
- *References (5 points)*