

Please choose one of the following two for a final project:

**1. Research project:** Write a brief paper (two to four pages in Physical Review format) about a topic of your choice at the interface of Statistical Physics and Biology. It should be formatted as a regular article with title, abstract, and bibliography. The main text should contain introductory and concluding paragraphs (whether or not they appear as subsections is not important). The ideal project will involve a combination of literature review, discussion of an analytical or computational model, and application/analysis of biological data.

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**2. Teaching site:** Design a web-site that can be used to teach a topic at the interface of Statistical Physics and Biology to non-specialists. For example, imagine that a high school teacher would use a one hour class to teach the material to an honor science class the material using your web-page. As such, you should include introductory materials, references that interested students can pursue on their own. The presentation must also be colorful and dynamic (e.g. by including figures, animations, applets, etc.) to engage and maintain the interests of a diverse non-specialist audience.

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- Students can collaborate in groups provided that the respective contributions of the participants is clearly specified in a footnote. (The length of a research paper may be proportionately longer in such collaborations.)
- Examples of projects from previous years are available online in the directory:  
<https://web.mit.edu/8.592/www/grades/projects/> .
- Clearly the initial hurdle is coming up with an interesting project that is doable in a short time. You should thus start thinking of potential topics as soon as possible, and submit a short proposal (two paragraphs; half a page) by the deadline of 3/11/22.
- The proposal will carry 6% points; the Final project 22% points towards the final course grade.

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