

00102892: Statistical Learning
Final Project Instructions

1. Each team should consist of two to four members.
2. The project should contribute to at least one of the following aspects of statistical learning: (a) theoretical understanding of existing methods; (b) new methodology or algorithms; (c) application to a new problem or dataset. Examples of topics:
 - (a) Rethinking the bias–variance tradeoff;
 - (b) A new method for transfer learning;
 - (c) Statistical network analysis of COVID-19.
3. Each team will need to submit a proposal of 1–2 pages by Monday, November 30. The proposal should briefly describe the proposed study, review related work, and justify its relevance and novelty. Be sure to include a complete list of references at the end of your proposal.
4. Each team will need to give a 10-minute presentation, including 2–3 minutes for questions, on Thursday, December 31, or Monday, January 4, during the usual class time.
5. The final written report is due on Thursday, January 7. It is recommended that you prepare your report using the ICML style file (<https://icml.cc/Conferences/2020/StyleAuthorInstructions>), but this is not mandatory. There is no length requirement for the report, but a typical conference paper length (8–9 pages formatted in the above manner) would be sufficient. Be sure to include an “Author Contributions” section summarizing each member’s contribution to the project. Submit both a PDF file and a hard copy of your report, along with code and data files (if not publicly available).