

Research Project



Final project - schedule

Date	Lecture	Lab
12/11	Dedicated time for research projects	Individual research
12/15	Oral presentation (1:30pm; ATL 0224) (Email your slides to me by NOON!)	Final paper submission (email both the pdf file and the latex file to the instructor by 1:30pm)

- Friday:
 - By noon, email me your presentation slides
 - I'll be at UMD around 1pm if you'd like to test your slides.
 - By 1:30 pm, email me both the pdf file and latex file of your final paper
 - 1:30 pm – 3:30 pm: presentations.

o Student class evaluation

o deadline: tomorrow (December 12, 2017)!

o For the 8-min oral presentation, you will be reminded when you have 3 minutes and 1 minute left.

o I will email the grade of your final report next week.

o If you do not receive your graded report by Dec. 20, please let me know!

o Scientific writing

o I plotted → Fig 1 shows

o Focus on the facts and results

o Include sufficient details so people can reproduce your results, but no need to tell people how many files you downloaded, and whether you use emacs or vi.

Final presentation

- 12/15 (Fri), 1:30 to 3:30 pm at ATL 0224 (the computer lab)
- Time: 10 min (talk + question)
 - Presentation: 8 min
 - Questions: 2 min after the talk. Everyone is greatly encouraged to ask questions. You will not be graded based on how you answer other students' question. (Though you might be graded based on how you answer the instructor's question.)
- Email me your slides by noon, 12/15!

Presentation evaluation criteria

- (20 pts) Preparation
 - Context includes: main science motivation, main results and discussion
 - Organization of slides
 - Figures
- (20 pts) Clarity
 - How well you speak
 - How well you catch the audiences' attention
 - See presentation from Don McMillan
- (20 pts) Demonstrate an understanding of the material
- (10 pts) Time management
 - Proper time allocation
 - Finish in time

Paper for the final project

- 20% of the final grade
- Use the template at:
- 5 pages
 - The title, abstract, and reference sections do NOT count into the page limit.
- Sections:
 - (2 pts) Title, name, affiliation
 - (5 pts) Abstract
 - (10 pts) Introduction
 - (15 pts) Method
 - (15 pts) Results (includes at least two figures)
 - (5 pts) Conclusion
 - (8 pts) References
 - The 8 points here are not just the reference format in the reference section, but includes good use of references through out the paper.

Research paper evaluation criteria

- Creativity – trying some creative ways
- Complexity/Difficulty – trying to achieve something more complex/difficult.
- Completeness
- Quality of writing:
 - Clarity
 - Comprehensive writing, good use of figures and tables.
 - Typos and grammar mistakes.
 - Scientifically correct
 - Science discussion of your results.
 - What do the results mean?
 - Are the results consistent with the expectation?
 - How do your results compare with previous studies in the literatures?