

CS 6824: Project Proposal Logistics

Website: <https://people.cs.vt.edu/dbhattacharya/courses/cs6824/>

Piazza: <https://piazza.com/vt/spring2022/cs6824/home>

Canvas: <https://canvas.vt.edu/courses/145337>

Grading

- **Class participation: 20%**
 - Involvement in class - 5%
 - Peer review - 15%
- **Paper presentation: 30%**
 - Each student presents 2 papers (1 before and 1 after spring break each 15%)
 - List of papers will be available for students to pick
- **Project: 50%**
 - **Proposal - 20% (10% for whitepaper and 10% for presentation)**
 - Report/paper - 15%
 - Presentation - 15%

Grading scale

(after computing ceiling of the final percentage of points earned)

A: 93%-100%	A-: 90%-92%	B+: 87%-89%	B: 83%-86%
B-: 80%-82%	C+: 77%-79%	C: 73%-76%	C-: 70%-72%
D+: 67%-69%	D: 63%-66%	D-: 60%-62%	F: Below 60%

Tentative Course Schedule

- **Introductory lectures**
 - Crash course on molecules
 - A general overview of AI-powered Molecular Modeling
- **Paper presentations**
 - Student presentation of research papers
 - Peer review of papers by students
- **Course projects**
 - Proposal whitepaper and presentation, peer review
 - Final presentation + report

Paper Presentations

- **Each student will present 2 papers picked by the student**
 - The goal of the presentation is to facilitate a discussion, focusing on:
 - Present the biological question and the corresponding computational abstraction
 - How did the authors address the problem?
 - Did they manage to answer the original biological question?
 - How can we improve the results? What are future directions?
- **The remaining students are required to write a short peer review**
 - Summary of the paper
 - Major and minor comments
 - Outlook/future directions
- **EasyChair reviews released for the papers you presented to date**

Deadlines

Note: All deadlines are until 11:59 PM EST unless otherwise specified

- ~~Jan 31: Pick 2 papers to present from [this list](#) and electronically submit the papers to [EasyChair](#) as the corresponding author (publicly discuss your preference in Piazza)~~
- ~~Feb 4: Accept invitation to be a PC member~~
- Submit [presentation](#) and [peer-review reports](#) no later than 24 hours before each paper presentation
- **Mar 4:** Submit project **proposal whitepaper** to [Canvas](#) and concurrently upload to [EasyChair](#)
- **Mar 13:** Submit project **proposal presentation** to [Canvas](#)
- **Mar 16:** Submit proposal peer reviews via [EasyChair](#)
- **Apr 13:** Submit project presentation to [Canvas](#)
- **May 4:** Submit final project report to [Canvas](#) and concurrently upload to [EasyChair](#)

Course Project

- Can be done individually or in a group (2 students max / project)
- First write and present a proposal, which will receive feedback from fellow students via EasyChair
- Then, conduct research and write a paper
- Pick a venue (conference/journal) and use NeurIPS LaTeX template style for your paper
- Extra credit for shooting for conference/journal submission

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Proposal whitepaper

- The project proposal should identify the **problem**, outline your preliminary **approach**, and propose the **metrics for evaluation**
- It should also discuss a proposed plan containing a breakdown of various tasks and important **project milestones** and who on your team will be responsible for what tasks for team-based projects
- The project milestones should be a prediction for planning purposes, but you are not obligated to adhere to them precisely
- Your proposal should **list at least three recent, relevant papers** you will read and understand as background
- The project proposal must be written using the following guidelines:
 - 11 point or higher font, except text that is part of an image
 - Times New Roman font for all text, Cambria Math font for equations, Symbol font for non-alphabetic characters (it is recommended that equations and symbols be inserted as an image)
 - 1" margins on all sides, no text inside 1" margins (no header, footer, name, or page number)
 - No less than single-spacing (approximately 6 lines per inch)
 - Do not use line spacing options such as "exactly 11 point", that are less than single spaced
 - The project proposal is required to be between 2 - 3 pages in PDF file format only to be submitted electronically via Canvas and concurrently uploaded to EasyChair. The page limit includes all references, citations, charts, figures, and images

Mar 4: Submit project **proposal whitepaper** to [Canvas](#) and concurrently upload to [EasyChair](#)

Proposal presentation

- Each group will prepare few slides to describe the project plan and deliver a **10-minute** in-class presentation
- The presentation should outline the **problem**, preliminary **approach**, and propose the **metrics for evaluation**
- It should also discuss a proposed plan containing a breakdown of various tasks and important **project milestones** and who on your team will be responsible for what tasks for team-based projects

Mar 13: Submit project **proposal presentation** to [Canvas](#)

Project groups

Group info available in the course website and Canvas

- Group 1: Jun Chen and Ngoc Khoi Dang
- Group 2: Monjura Afrin Rumi
- Group 3: Bernard Moussad
- Group 4: Md Hossain Shuvo
- Group 5: Samira Mali
- Group 6: Mohimenuul Karim
- Group 7: Joung Min Choi
- Group 8: Sareh Ahmadi
- Group 9: Gunnar Nelson
- Group 10: Rahmatullah Roche

Mar 14

no class on Mar 16

Mar 21

Submission deadlines are the same for all groups

Proposal peer-review

- Will be assigned via EasyChair
- Maximum of 3 peer-reviews per person

Mar 16: Submit proposal peer reviews via [EasyChair](#)

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Policies

- **Collaboration Policy**
 - You are encouraged to collaborate
 - Give proper credit when its due
 - **Project proposal/report will be plagiarism checked**
- **Academic integrity**
 - Students enrolled in this course are responsible for abiding by the Honor Code
 - Zero-tolerance philosophy regarding plagiarism or other forms of cheating
- **Principles of Community**
 - The course will include in-class discussions, and we will adhere to Virginia Tech Principles of Community.
- **Accessibility**
 - If any student needs special accommodations because of any disabilities, please contact the instructor during the first week of classes.
 - Such students are encouraged to work with The Office of Services for Students with Disabilities to help coordinate accessibility arrangements.
- **COVID-19 Policy**
 - Please follow the instructions posted at the University and public health guidelines for the latest COVID-19 Policy.

Questions?

Checkout course webpage at:

<https://people.cs.vt.edu/dbhattacharya/courses/cs6824/>

...and ask questions via Piazza:

<https://piazza.com/vt/spring2022/cs6824/home>