

# Schedule : Spring 2022

This is the tentative schedule of Mélange group for the Fall 2021 semester.

Meeting time & Place : Tuesdays 9:30 AM - 10:30 AM (MST/MDT) in ISTeC Room (CSB 305), and via Webex.

| WEEK | DATE | TOPIC   | PRESENTER          |
|------|------|---|--------------------|
| 1    | 1/18 |   |                    |
| 2    | 1/25 | Paper critique  | Everyone           |
| 3    | 2/1  |   |                    |
| 4    | 2/8  | Paper critique  | Everyone           |
| 5    | 2/15 | ?   | ?                  |
| 6    | 2/22 | Batch Binary Edwards  | William Scarbro    |
| 7    | 3/1  | Program Equivalence   | Louis-Noël Pouchet |
| 8    | 3/8  | Linear scan register allocation   | Louis-Noël Pouchet |
| 9    | 3/22 | The Mapping of Linear Recurrence Equations on Regular Arrays  | Corentin Ferry     |
| 10   | 3/29 | Scheduling Reductions   | Nana Yin           |
| 11   | 4/5  | Master's Thesis: Iterative optimization in the polyhedral model   | Louis-Noël Pouchet |
| 12   | 4/12 | A Unified Dynamic Programming Framework for the Analysis of Interacting Nucleic Acid Strands: Enhanced Models, Scalability, and Speed | Chiranjeb Mondal   |
| 13   | 4/19 |   | Vidit Save         |
| 14   | 4/26 |   | William Scarbro    |
| 15   | 5/3  |   | Shenmou Liu        |

## Previous Semesters, including legacy reading lists

1. [Fall 2021](#)
2. [Spring 2021](#)
3. [Fall 2020](#)
4. [Fall 2019](#)
5. [Spring 2019](#)

## Standard paper study questions

1. Write a short (max 5 sentences) summary of the paper.
2. What is the problem addressed in the paper?
3. Why is the problem important?
4. How do the authors address the problem?
5. How do they evaluate their approach?
6. What is the punch-line (key cool idea, or “what I got out of this paper”)? This is often different for different people and different from what the authors may have intended.
7. Make a list of deeper questions that you would like discussed in the meeting.

# Current Reading Pool

- Charles E. Leiserson, Neil C. Thompson, Joel S. Emer, Bradley C. Kuszmaul, Butler W. Lampson, Daniel Sanchez, Tao B. Schardl. **There's plenty of room at the Top: What will drive computer performance after Moore's law?** In *Science*, 6495, 2020. <https://www.microsoft.com/en-us/research/uploads/prod/2020/11/Leiserson-et-al-Theres-plenty-of-room-at-the-top.pdf>
- Mark E. Fornace, Nicholas J. Porubsky, Niles A. Pierce. **A Unified Dynamic Programming Framework for the Analysis of Interacting Nucleic Acid Strands: Enhanced Models, Scalability, and Speed.** In *@/oc@*, 10, 2020. <https://doi.org/10.1021/acssynbio.9b00523>

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