

# Reading seminars in 2024

## Fall semester

### Schedule

- Default: 1:15 - 2:45 pm, Wednesday
- Room: ???

## Project-Based Learning Initiative: Guidelines and Instructions

This initiative aims to replace traditional book-based learning with hands-on, collaborative projects that allow you to explore advanced concepts in Graph Learning and Image Processing. Here are the detailed guidelines and instructions to ensure your project is well-structured and aligns with the initiative's goals:

### 1. Group Structure

**Total Members:** 7 students, divided into two specialized groups.

**Group A:** students focusing on *Graph Learning Research*.

**Group B:** students focusing on *Image Processing Research*.

### 2. Objective

The primary objective is to foster a shift from passive learning to active project-based learning. This approach enables you to:

- Deepen theoretical understanding through practical application.
- Engage in projects that align with your research focus area.

### 3. Project Selection

#### Criteria for Project Selection:

- Relevance to the group's specific focus area (*Graph Learning* or *Image Processing*).
- Should address a significant problem or explore an innovative concept.
- Feasible to complete within a semester.

**Example Project Idea:** *Using Neural Architecture Search to find the best architecture for image classification.*

## 4. Project Execution

**Timeline:** Projects must be completed within one semester.

**Collaboration Platform:** Use *GitHub* for version control

### Roles of All Members:

- Research relevant papers and source code.
- Contribute to the project's codebase, documentation, and other materials on GitHub.
- Participate in weekly meetings to discuss progress and address challenges.

### Individual Responsibilities:

*Literature Review:* Each member is assigned specific resources to review and present summaries.

*Code Implementation:* Members focus on different modules or features to ensure full project coverage.

## 5. Expected Outcomes

**Minimum Outcome:** Successful replication of a recent research paper to code implementation.

### Desired Outcomes (If possible):

Potential publication of robust and novel results in academic journals or conferences.

## 6. Benefits of Project-Based Learning

### After completion:

- Enhance coding and project management skills.
- Develop critical thinking and problem-solving abilities through real-world applications.
- Build a portfolio on GitHub to showcase skills to potential employers.
- Demonstrate teamwork and collaborative skills.

### Resilience in Outcomes:

- Even if the project is not publishable, it serves as a valuable addition to your professional portfolio.

## 7. Project Management and Evaluation

**Progress Tracking:** Use *GitHub Issues* and *Projects* to manage tasks, milestones, and deadlines.

**Regular Check-ins:** Weekly meetings for updates, insights, and problem resolution.

**Final Presentation:** At the semester's end, present the project outcomes, highlighting

achievements, challenges, and lessons learned.

Thank you. Enjoy Learning

## Spring semester

### Schedule

- Default: 1:15 - 2:45 pm, Monday
- Room: 121/122 実習室
- April 8, 15, 22
- May 13, 20, 27
- June 3, 10, 17, 24
- July 1, 22, 29

### Book

- [https://www.cs.mcgill.ca/~wlh/grl\\_book/](https://www.cs.mcgill.ca/~wlh/grl_book/) (each time about 10 pages)

| Date     | Presenter       | Contents                                                           | Participants                                            | Remark                                                                       |
|----------|-----------------|--------------------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------------------------|
| April 8  | Zhao            | till Chapter 1 ( <a href="#">my memo</a> ) & decide the assignment | Li-Yang, Rimsa, Rojan, Mizuguchi, Zhenyu, Likun, Haiyan | Every body shall bring his/her own reading memo as if he/she is the speaker. |
| April 15 | Li-Yang         | 2.1, 2.2 (pp.9-21)                                                 | Haiyan, Mizuguchi, Likun                                |                                                                              |
| April 22 | Haiyan          | 2.3, 2.4 (pp.21-27)                                                | Li-Yang, Rimsa, Mizuguchi, Rojan, Li-Kun                |                                                                              |
| May 13   | ROJAN           | 3 (pp.28-37)                                                       | Haiyan, Marco, Likun                                    |                                                                              |
| May 20   | Rojan           | 4 (pp.34-45)                                                       | Li-Yang, Likun                                          |                                                                              |
| May 27   | Mizuguchi       | 5.1, 5.2 (pp.46-58)                                                | Li-Yang, Rimsa, Zhenyu, Li-Kun, Haiyan                  |                                                                              |
| June 3   | Zhenyu          | 5.3-5.6 (pp.58-67)                                                 | Haiyan, Rimsa, Rojan, Mizuguchi, Likun                  |                                                                              |
| June 10  | Li-Yang<br>Zhao | 6 (pp.68-74)                                                       | Haiyan, Likun, Zhenyu, Tomoya, Chi-Wei                  |                                                                              |
| June 17  | Haiyan          | 7.1 (pp.75-88)                                                     |                                                         |                                                                              |
| June 24  | Rimsa           | 7.2, 7.3 (pp.88-101)                                               | Zhenyu, Rojan, Tomoya, Chih-Wei, Haiyan, Likun          |                                                                              |

|         |           |                                                                               |                                   |  |
|---------|-----------|-------------------------------------------------------------------------------|-----------------------------------|--|
| July 1  | Mizuguchi | 8 (pp.102-107)                                                                | Zhenyu, Haiyan,<br>Likun, Chi-Wei |  |
| July 22 | Rimsa     | 9.1 (pp.108-115)                                                              | cancelled                         |  |
| July 29 | Zhenyu    | 9.2-end (pp.115-124),<br><a href="#">grl_book_notes_zhenyu_zuo_july28.pdf</a> | on-demand                         |  |

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