

# Exam Instructions

## Graph Deep Learning

### SA 2025

# MASTER - overview

- **Grade:** 80% project + 20% quiz
- Choose between 3 types of projects:
  - **Reproducibility Challenge:** Replicate results from top ML papers
  - **Research Project:** Produce a research-oriented scientific paper (instructor approval required)
  - **Meteo Swiss Project - Application deadline: Oct 8th, 23:59**  
Only few spots available (instructor approval required).
- Special rules apply to PhD students (see at the end)

# MASTER - Reproducibility Challenge

- Replicate published results from provided list of papers
- You may propose different papers (from same venues, requires TAs approval)
- Focus on **understanding** the core contribution and critically validating results. Do not simply re-run the code!
- For different reasons (computational complexity, missing data, ...) you may not be able to reproduce all the results. If so, explain **why** and **what you tried to do**.
- If the project is or becomes simple (e.g., code is already provided or something cannot be run), **consider adding new experiments**.

# MASTER - Reproducibility Challenge

- During the presentation you should be prepared to explain:
  - The **problem setting**
  - The **algorithm/method**
  - The **justification and motivation**
- See resources in this website ML Reproducibility Challenge (<https://reproml.org/>).
- Produce a report of 4 to 8 pages and use the template provided on iCorsi.

# MASTER - Research Project

- Aim to produce a paper-like outcome with **novel contributions**
- You have to **propose** your own project, requires TAs approval
- More like a small thesis project
- It may lead to a **publication** or a **master thesis**

# MASTER - Meteo Swiss Project

- Work on **real weather data** provided by MeteoSwiss
- Projects for **2 groups** available
- **Deadline: Oct 8th, 23:59**
- You may expand your work with a **thesis project** after this course

# MASTER - Group Formation & Exam

- Groups of **3 members** (We may rearrange groups)
- If problems with your team members arise, get in touch with us **as soon as possible!**
- Exam: **20 minutes** presentation (all members must present) + **10 minutes** of Q&A
- **Deadline:** Submit report and code by **Dec 12th, 23:59**. Send an e-mail to all TAs
- Presentations are scheduled for **Dec 19th**
- Grading based on **report, presentation and participation in Q&A**

# MASTER - Group Registration

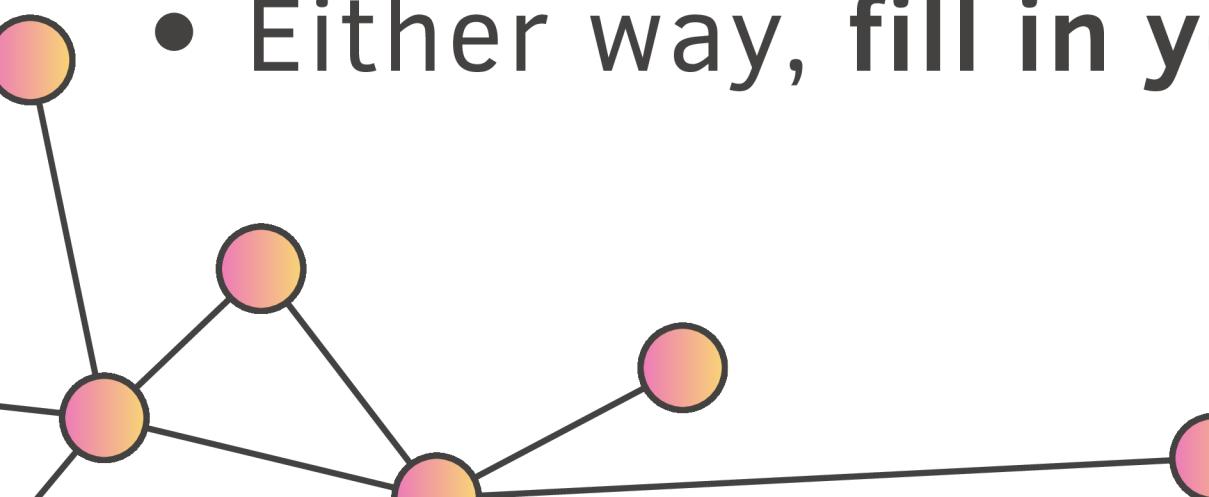
- Choose the project you intend to do on the **iCorsi form**
- Students opting for the same choice will be considered a group
- A special choice is provided for students **looking for teammates**
- **Deadline to make groups: Oct 15th**

# PhD students



You have two possibilities to pass the course:

1. **Group project** (as any other student)
2. **Present a paper** of your choice. Three constraints:
  - **Recent**: maximum from last 2-3 years
  - **Top**: Must be published on top-tier venue (list on iCorsi)
  - **GDL-related**: It must be related to the topics of the course
- We suggest to have a look at papers published at LOG Conference
- Either way, **fill in your choice** on the iCorsi page



## BONUS: Master Thesis

If you are interested in pursuing the Master's thesis with us, reach out to us via email and attach:

1. Your expected thesis submission deadline
2. Your transcript of records (BSc and Master)
3. The number of exams (and ECTS) still to be done
4. If you plan to pursue a PhD after your Master's degree
5. Resumé (optional)

If many of you are interested, we will organize a session to present the projects.