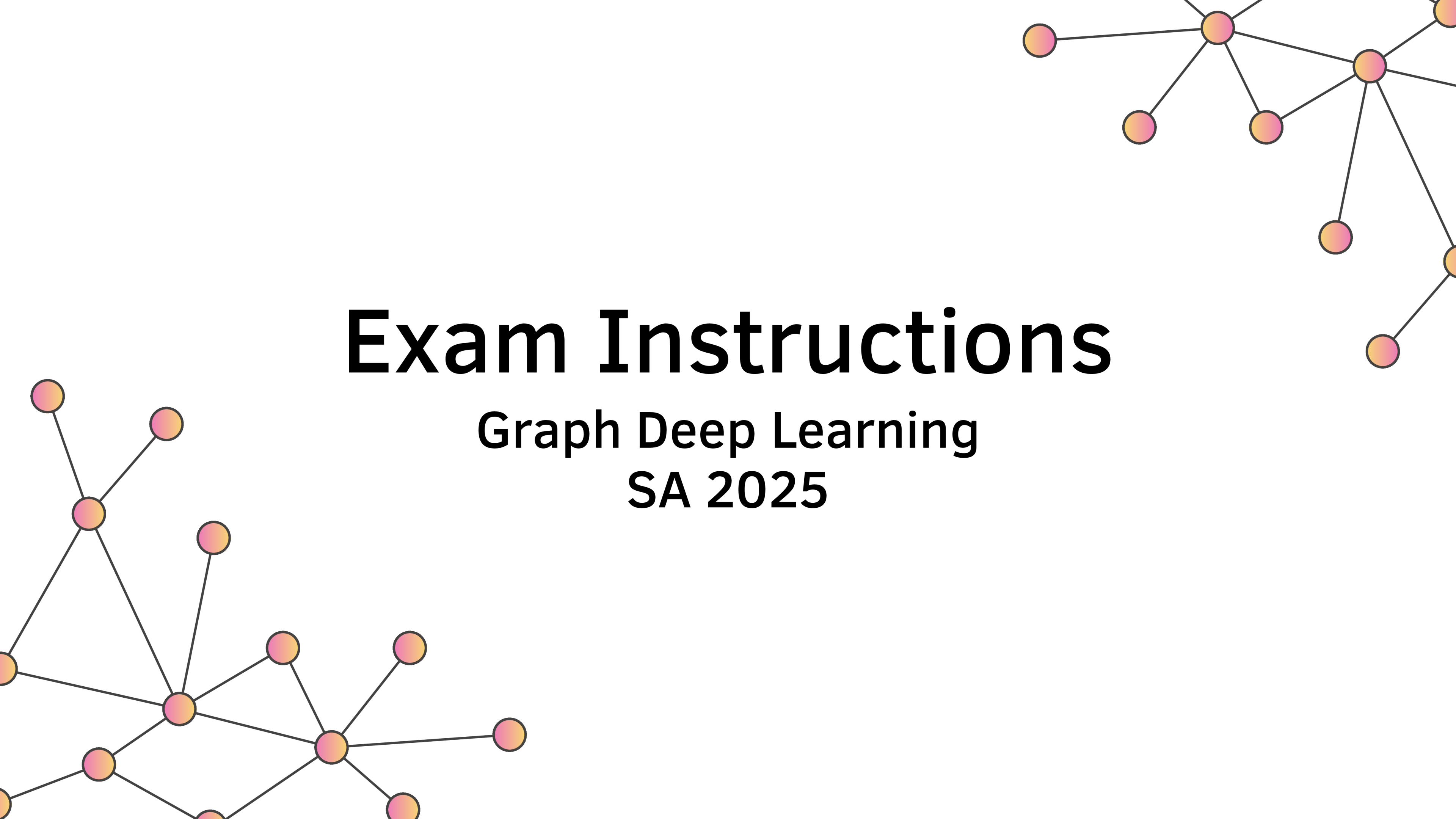


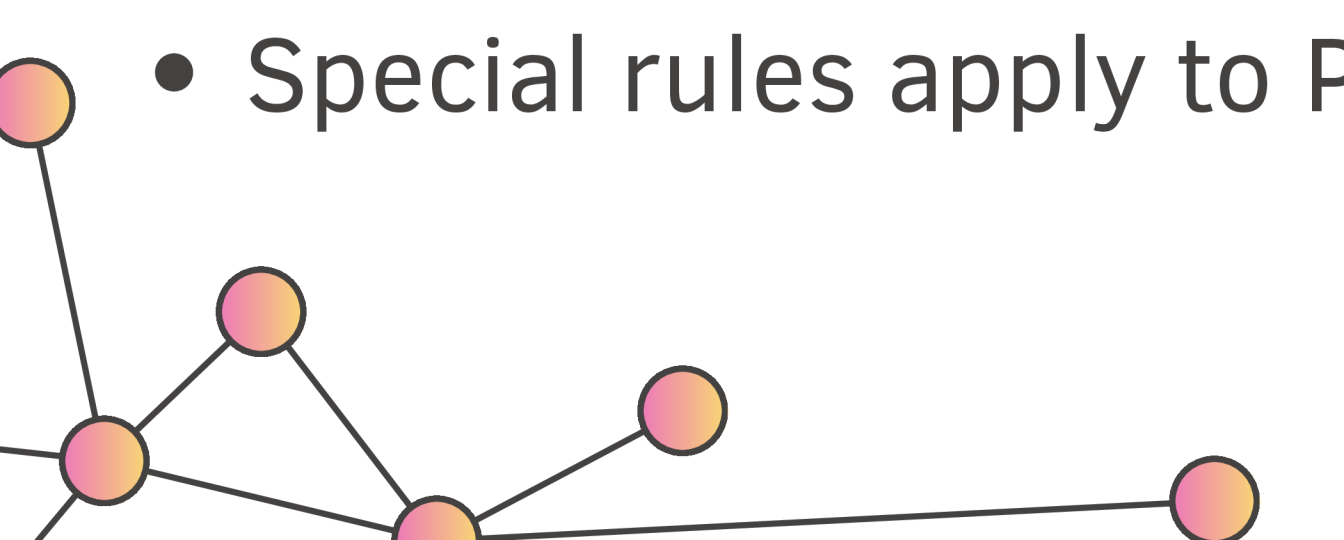
Exam Instructions

Graph Deep Learning
SA 2025



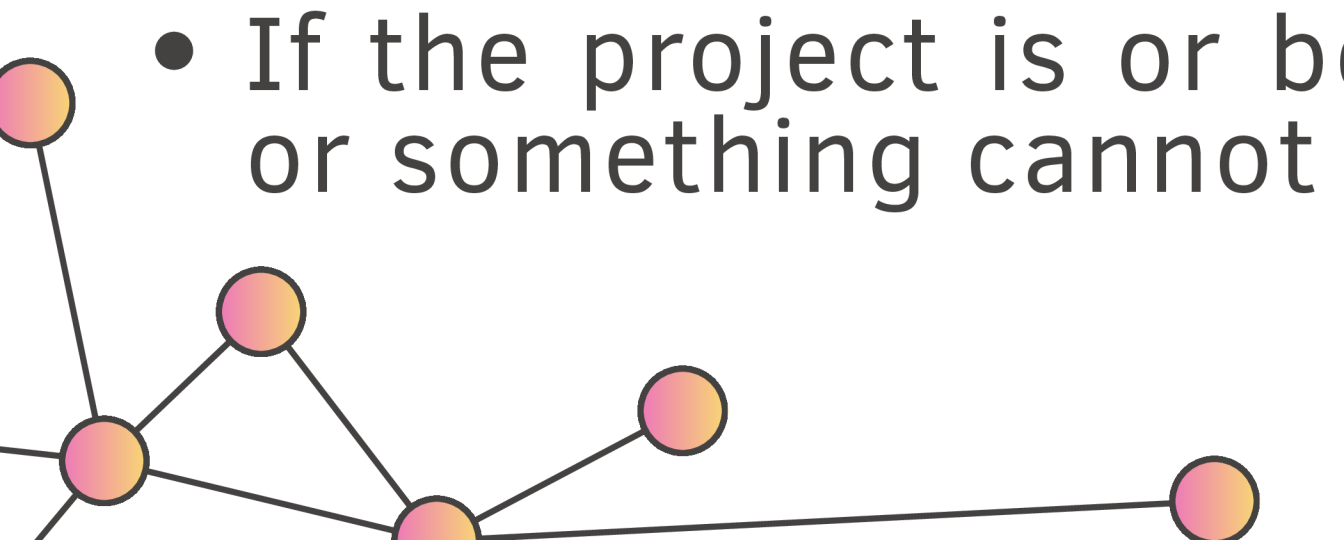
MASTER - overview



- **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)
- 

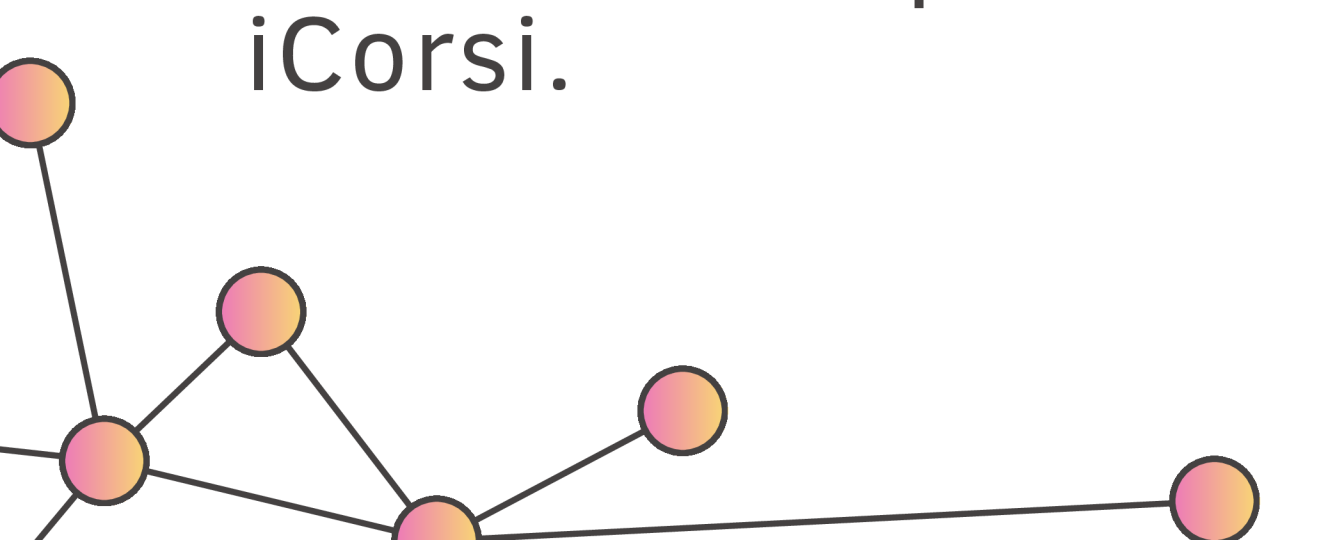
MASTER - Reproducibility Challenge



- **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**.
- 

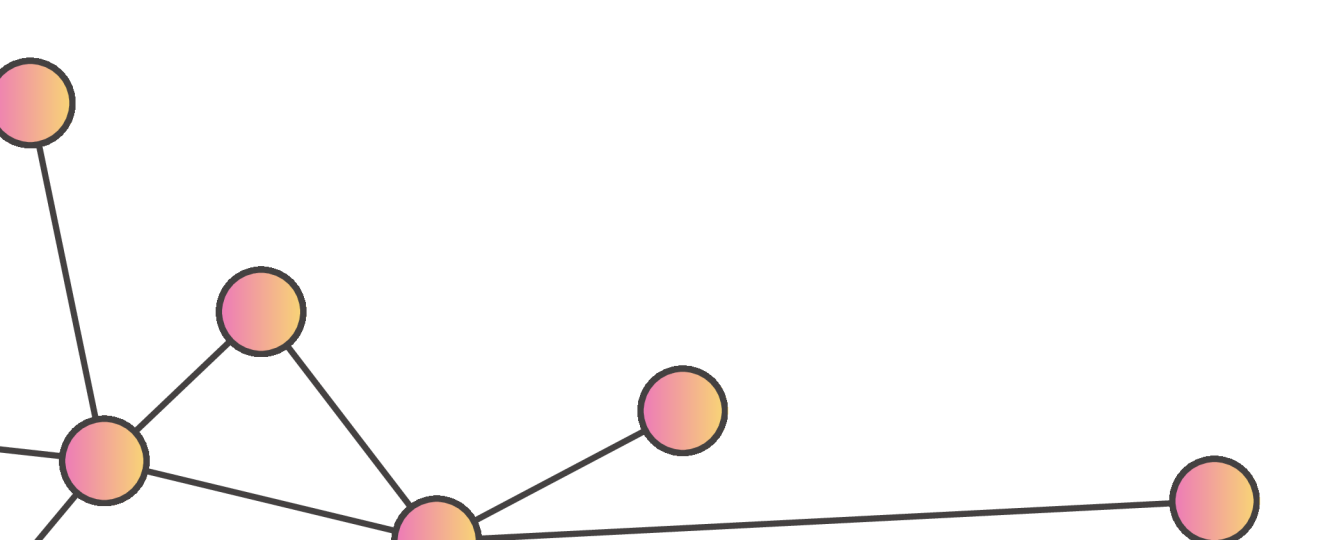
MASTER - Reproducibility Challenge



- 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/) (<https://reproml.org/>).
 - Produce a report of 4 to 8 pages and use the template provided on iCorsi.
- 

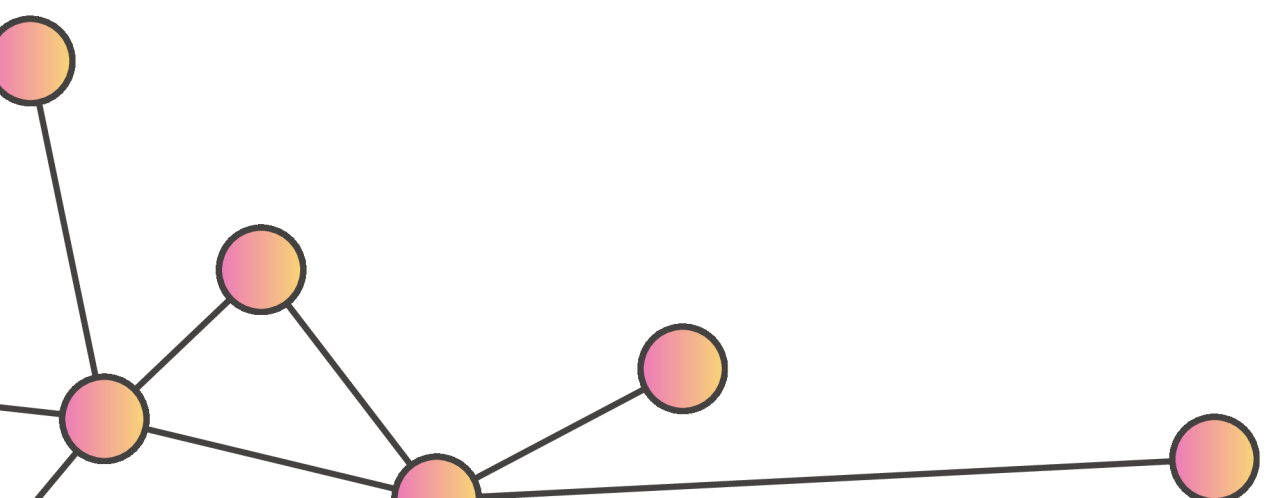
MASTER - Research Project



- 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**
- 

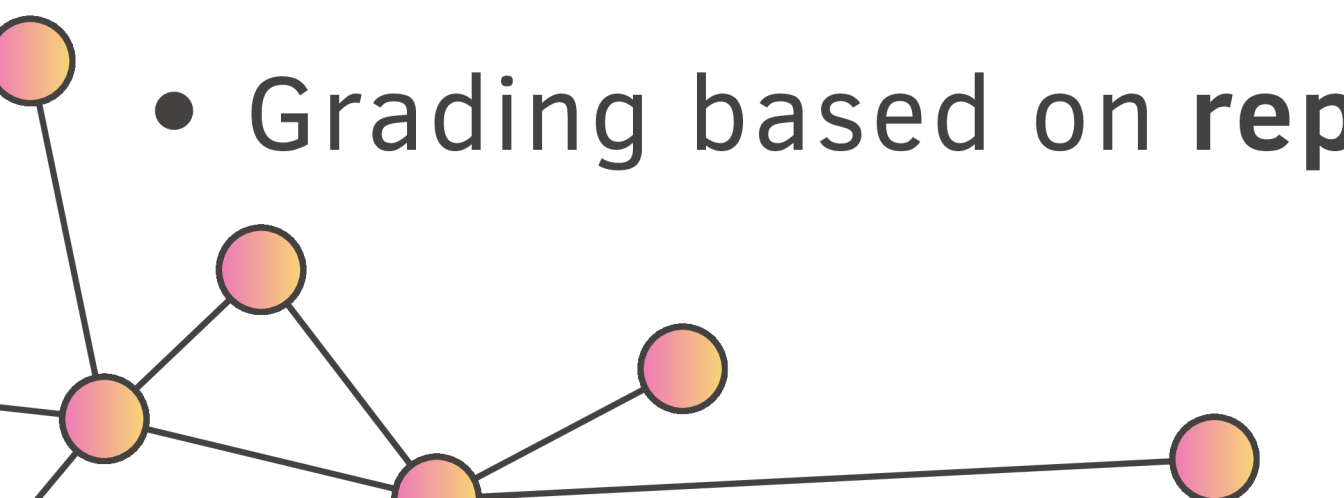
MASTER - Meteo Swiss Project



- 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**
- 

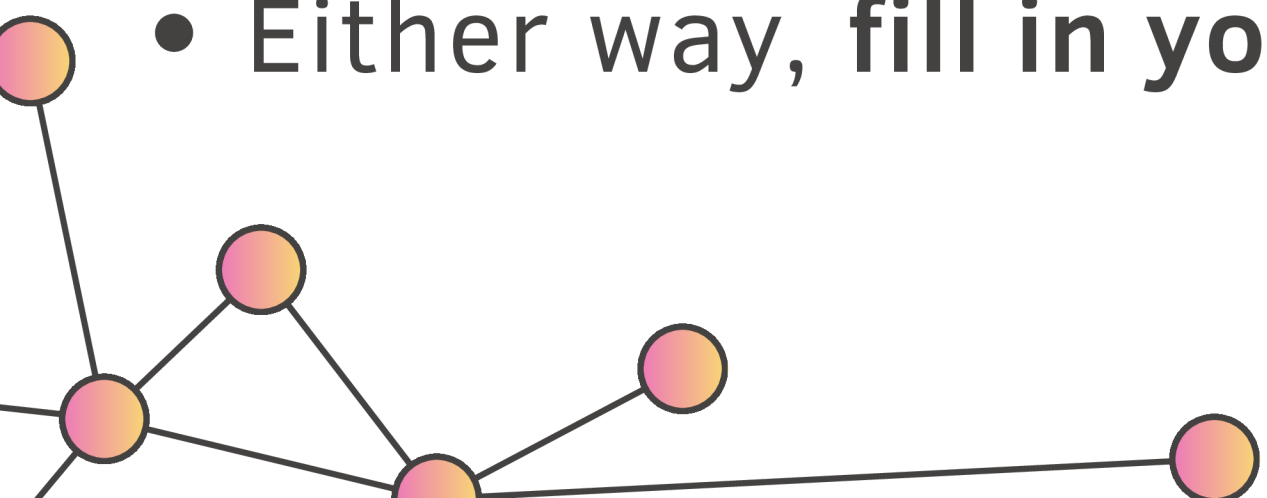
MASTER - Group Registration

- 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. Résumé (optional)

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

