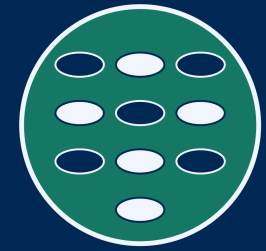




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# DAT390

## Data science seminar

2 Literature review

2.3 Topic overview and groups

2.4 Technical remarks

# What are the mandatory activities?

## Oral presentation.

- Give a four-minute highlight presentation.

## Academic discussion.

- Give structured feedback to one of the highlight presentations.
- Take part in the activities of one of the groups.
  - Be present at the group meetings (**will not be controlled**).
  - Co-author the group's plan for collaboration next semester (20.10.).
  - Be present when the group's ideas are presented and discussed.

**Attend all seminar meetings.** This is a requirement that **will not be controlled**. In practice you should be OK in absence if a friend informs you of key points. But it is your duty in this case to get the information, not ours to deliver it.

## **The mandatory activities do not contribute to the grade (character).**

The grade for DAT390 is only determined from the final report - nothing else.



# If you missed your scheduled activity

## Oral presentation.

- Give a **four-minute highlight** presentation.

## Academic discussion.

- **Give structured feedback** to one of the highlight presentations.
- Take part in the activities of one of the groups.
  - Be present at the group meetings (will not be controlled).
  - Co-author the group's plan for collaboration next semester (20.10.).
  - Be present when the **group's ideas are presented** and discussed.

If a time slot was scheduled for you (as a presenter or reviewer) and you did not present or review, you are on the way to failing the module. It is as a general rule your responsibility to see if it can be rescheduled, not ours.

The grade for DAT390 is only determined from the final report - nothing else.

# What is not mandatory?

## Declaring the topic of your DAT390 report in advance.

- I asked for this information, but not supplying it will not disqualify you.
- You can in principle keep changing your topic up until 15<sup>th</sup> December.
- You can also refuse to declare any topic up until 15<sup>th</sup> December.

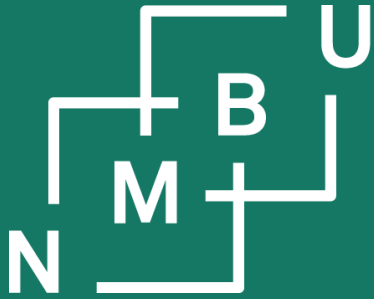
## Any relation between your DAT390 report topic and your master thesis topic.

- If the topics are related, it will make DAT390 more useful for you.
- This is only a recommendation. You are not required to know your master thesis topic or your master thesis advisor at this stage.

## Submitting the “draft report” (6.10.) and the “nearly finished report” (10.11.).

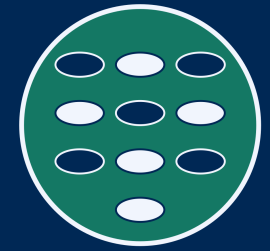
- This is our duty to you, not the other way around.
- If you submit them on time, you receive feedback. If you make use of the feedback, it will improve your final report and your master thesis.

The grade for DAT390 is only determined from the **final report** - nothing else.



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## 2 Literature review

### 2.3 Topic overview & groups

# Statistics on last week's submissions

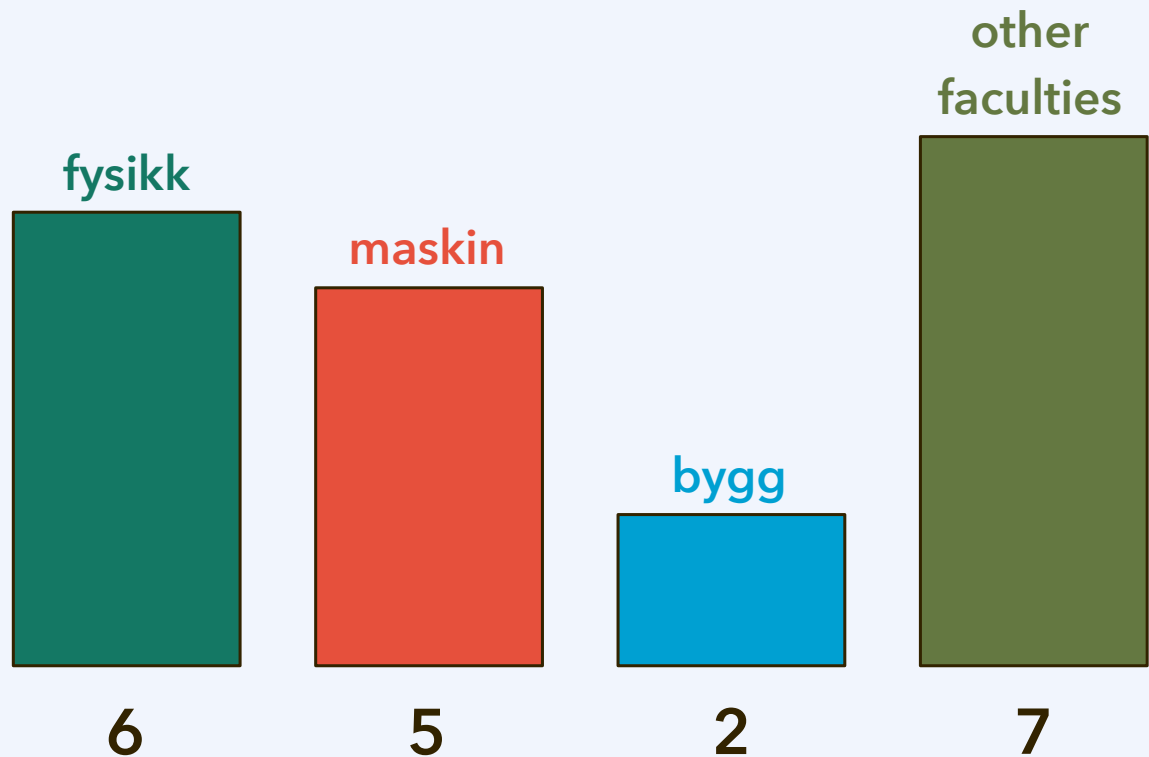
There are now 53 students on the course (down from 55 initially).

Out of these 53:

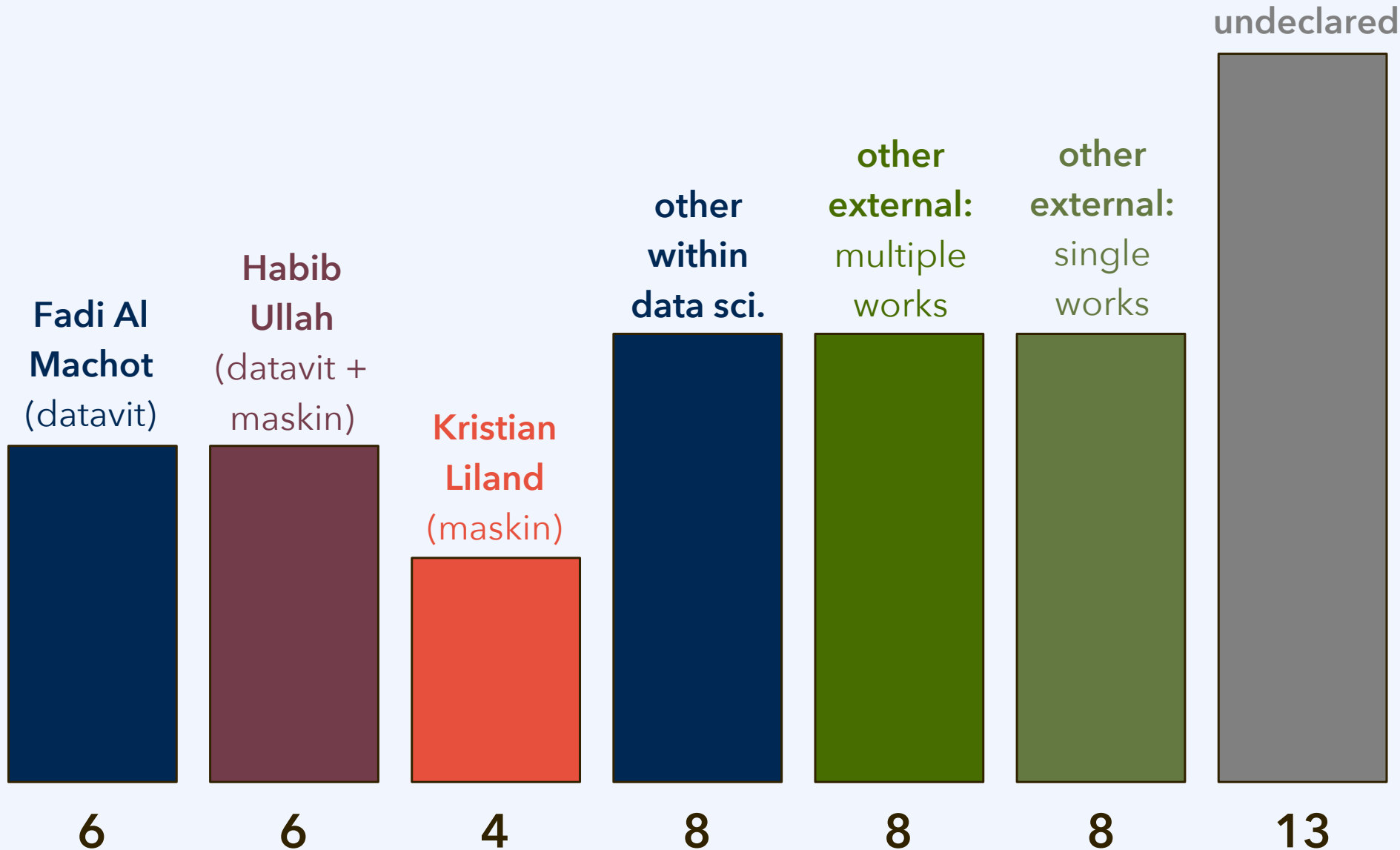
13 did not respond to declare their advisor.

20 have a main advisor from **data science** (or 50% in data science).

20 have a main advisor **outside data science**:



# Advising faculty: Number of advised master theses



# Other faculty within data science still have capacity

They are at full capacity now!!



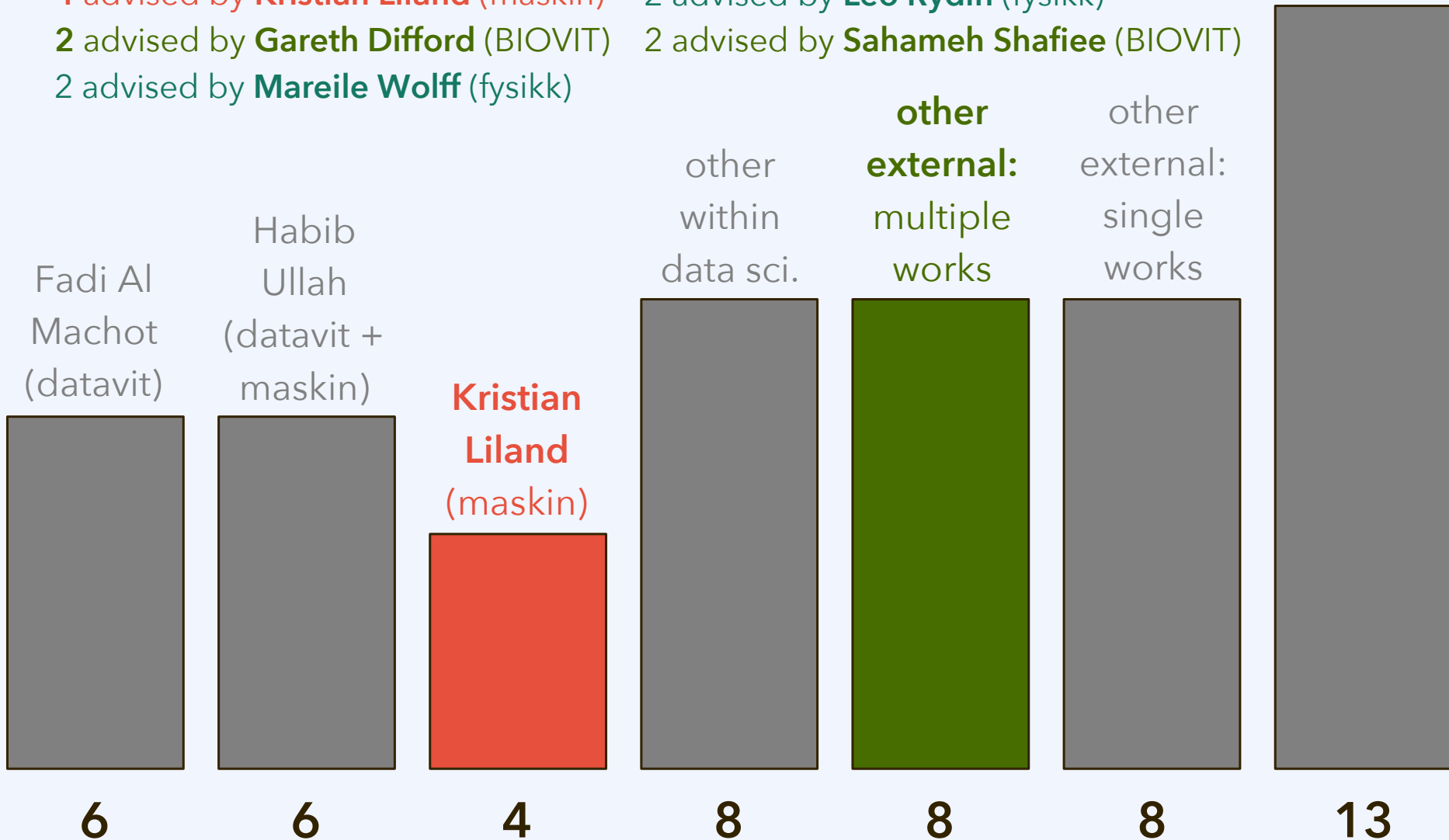


# Who are the main advisors outside data science?

4 advised by **Kristian Liland** (maskin)  
2 advised by **Gareth Difford** (BIOVIT)  
2 advised by **Mareile Wolff** (fysikk)

2 advised by **Leo Rydin** (fysikk)  
2 advised by **Sahameh Shafiee** (BIOVIT)

undeclared



# Group formation

It is a goal of DAT390 to encourage academic discussion and collaboration among students. With 53 participants, this cannot be done on a 1:1 basis only.

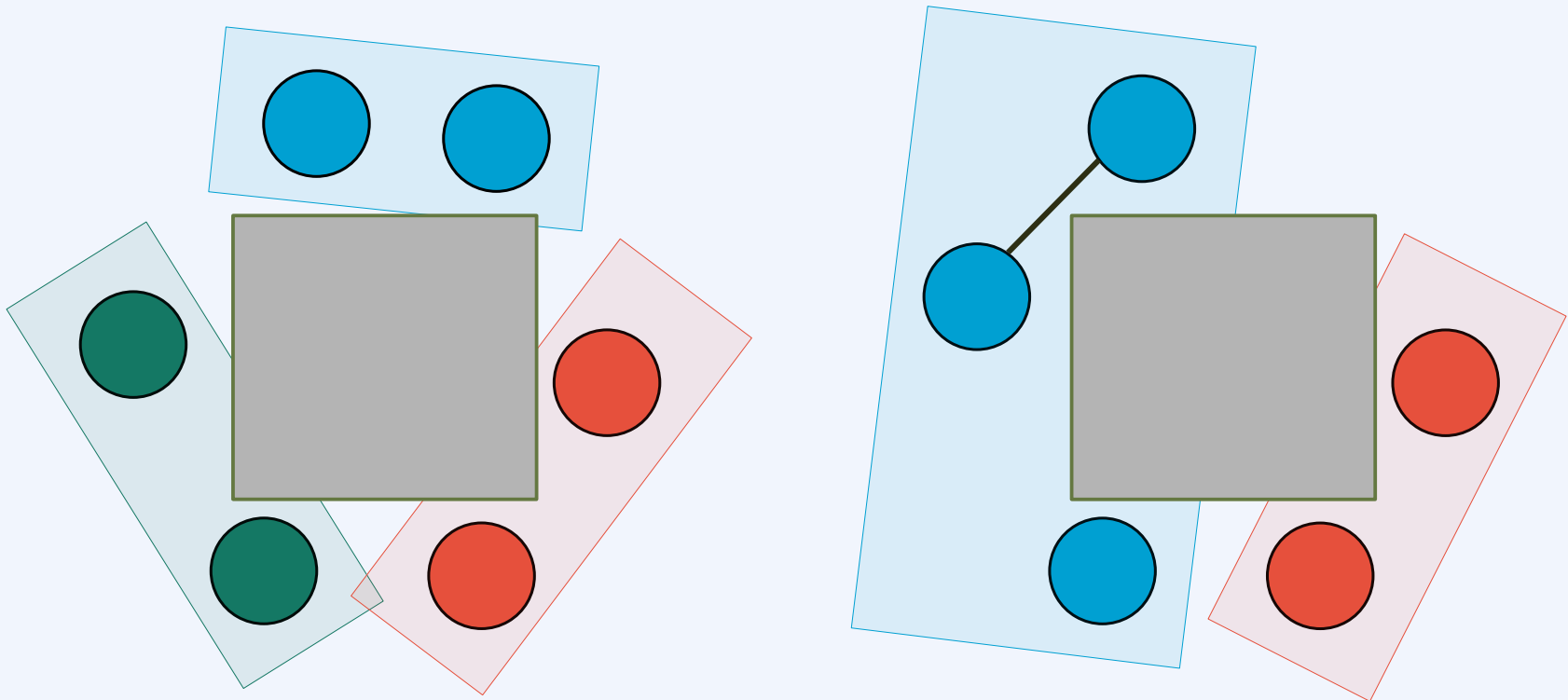
Eight groups have been created based on last week's input.

The groups are meant to:

- Facilitate academic discussion and mutual support in a smaller setting.
- **Already provide mutual support now, when discussing the literature.**
- Build up collaborations that continue into the coming semester.
- Concretely plan a student-organized collaboration next semester.
  - Group presentations of these plans will be held. The students from DAT390 will evaluate them as proposals and select the winner.
  - The winning proposal will be supported by the institute.
  - These plans/proposals are a mandatory activity (due 20<sup>th</sup> October).

# Connecting as a group: Steps 1 + 2

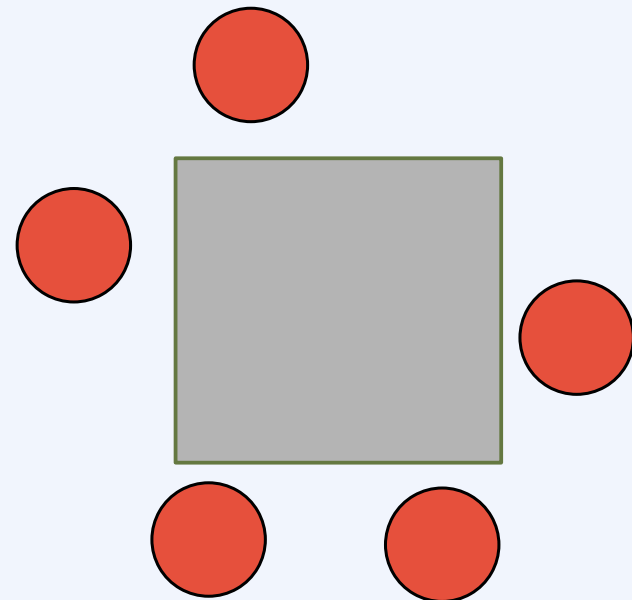
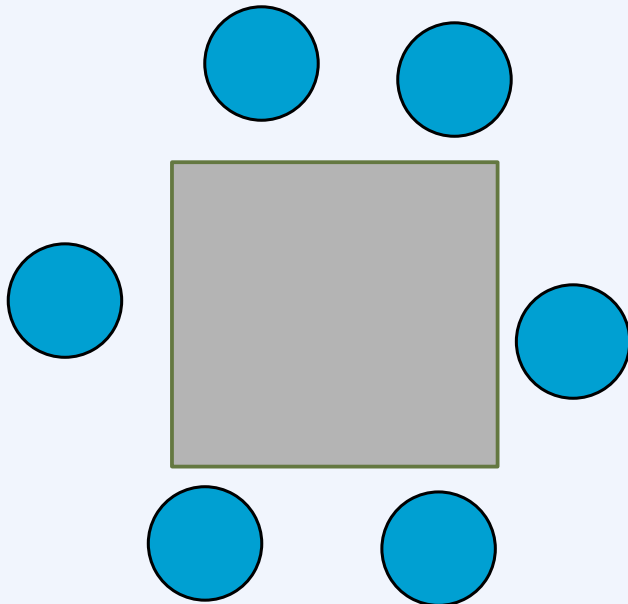
**Five minutes** to explain your topic and aims (**elevator pitch**) to a neighbour, and listen to your neighbour's. Take notes - you will need them later.



## Connecting as a group: Step 3

When can you meet in person for a first group session?

Schedule the meeting. It should be this Wednesday, Thursday, or Friday.



# First discussion and first group meeting

The group meeting should be on Wednesday, Thursday, or Friday. In this way, you have at least one day to select interesting literature for each other.

What to do until the group meeting?

- In round 1, you now learnt about another project; in round 2, again. Select **one paper** that could be **of interest to both** of these projects.
- It is not necessary that this paper is of interest to your own work as well.
- Print as many copies of that paper as there are group members.

What to do at the group meeting?

- Agree who will be responsible for reporting on the meeting on Canvas.
- Exchange the literature that you selected.
- Explain why the paper you selected will be relevant to the others' work.
- Together, out of these papers, select "two that everybody will read."
- Choose a group name, so we can use it instead of the group number.

# First discussion and first group meeting

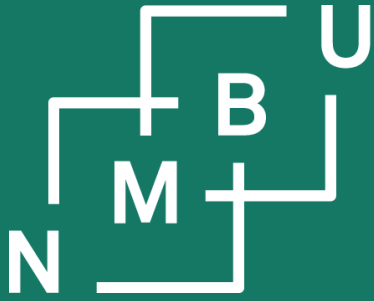
By end of Friday, report on the group meeting on Canvas.

Submit a PDF generated using **LaTeX** and **BibTeX**:

- Declare your **group's name**.
- **Cite the two papers** that you selected for everybody in your group to read, and **explain why you chose them**.
- Don't cite the other exchanged papers, only these two.
- If you have some questions about it or would like some dedicated feedback, do submit the sources as well.

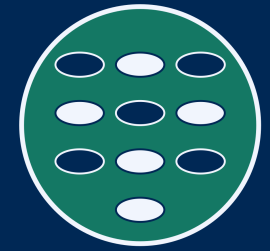
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## 2 Literature review

2.3 Topic overview & groups

2.4 Technical remarks

# General advice (from last week)

## Don't let ChatGPT write your text.

- Remember that this exercise is not graded. It is to help you learn this. You do not **improve your academic writing** unless you **do it yourself**.
- ChatGPT also often makes up false information and literature sources.
- **Instead, do** read the academic literature carefully and replicate the style of successful authors from the field of application that you will work on.

## Don't cite "unacademic" literature.

- Are you "allowed" to cite websites, newspapers, forums, standard textbooks read by students, etc.? Yes, it is "allowed." But it looks unprofessional, and as a beginner you must learn how to look professional.
- **Instead, do** cite **journal articles** and **conference papers** only, for now.

## Don't steal other authors' diagrams and other figures.

- Even if you cite the source (otherwise it's plagiarism), it may be illegal.
- **Instead, do** submit **documentation that you hold the license** for any figures that you are reusing, or avoid reusing others' figures altogether.



## General advice (from last week)

Do all the below all the way until the final report. Best for your Master thesis as well.

**Don't cite "unacademic" literature.**

**do** cite **journal articles** and **conference papers** only, for now.

**Don't steal other authors' diagrams and other figures.**

submit **documentation that you hold the license** for any figures that you are reusing, or avoid reusing others' figures

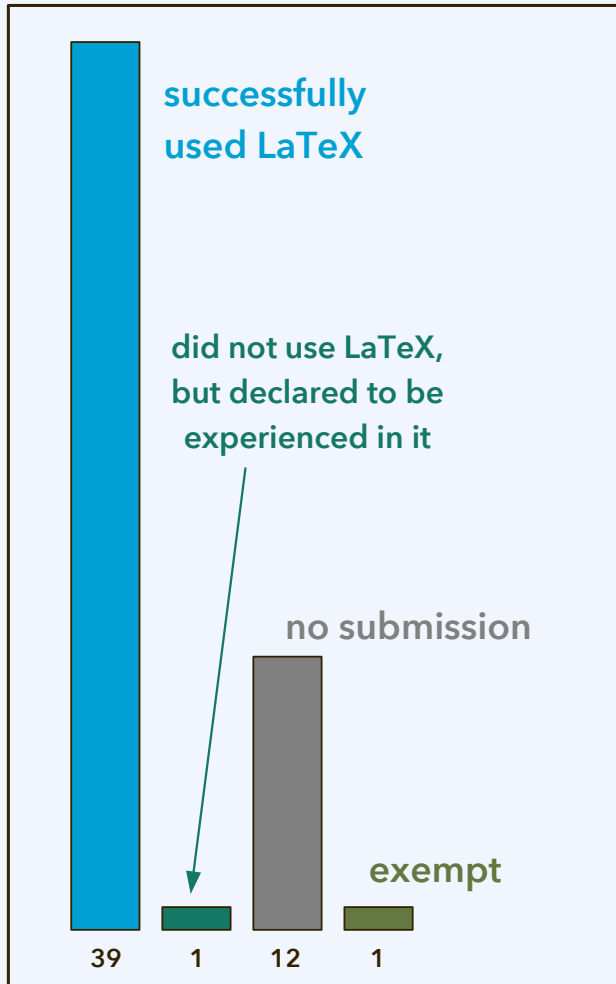


# What literature should be discussed?

For the “draft report” submission on 6<sup>th</sup> October, discuss at most 24 papers.  
This number is reached easily:

- What are the main literature sources for **methods** that you will be using? The same for methods that are popular, but that you will *not* use.
- The same as above for **knowledge** that you will build on, or *not* build on.
- Your **main advisor** should e.g. recommend **three key references**. If the advisor cannot competently do this, it is a wrong combination of person and topic. In this case urgently change your topic, or advisor, or both.
- This week **your group** will determine two papers that everybody should read. Two papers will be recommended to you from those you learnt about your topic in **today’s exercise**.
- Yes, do a literature research, but don’t get lost at this stage. Focus on **selecting key papers** that you can actually read, analyse, and report on.

# LaTeX knowledge

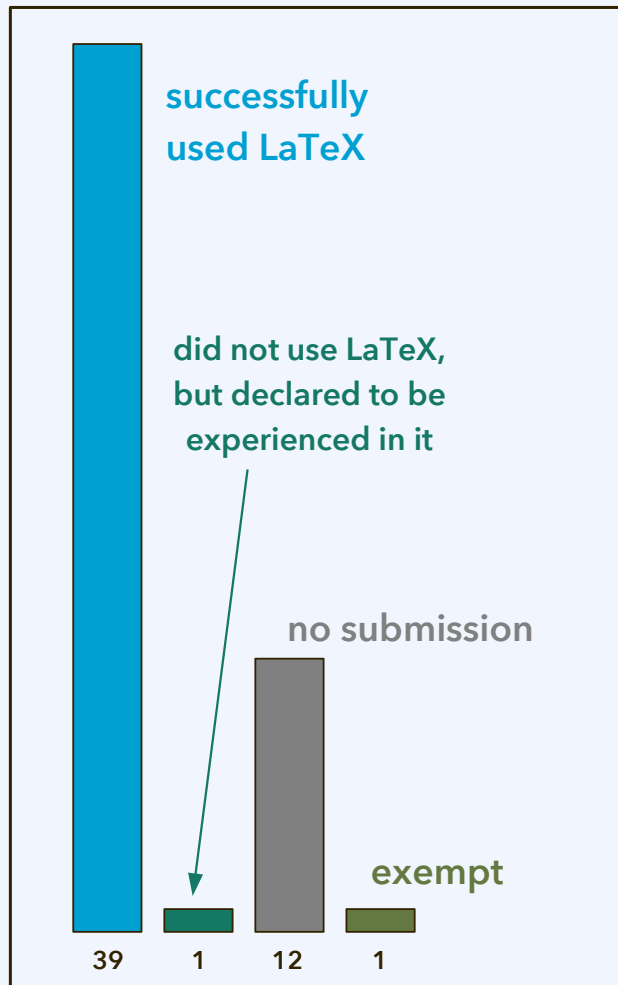


last week's submissions

In last week's submission:

- It was an option for people to say they were not using LaTeX due to lack of knowledge/experience of it.
- Not a single participant declared this, and all seem to be managing it well.

# Specification of tasks



last week's submissions

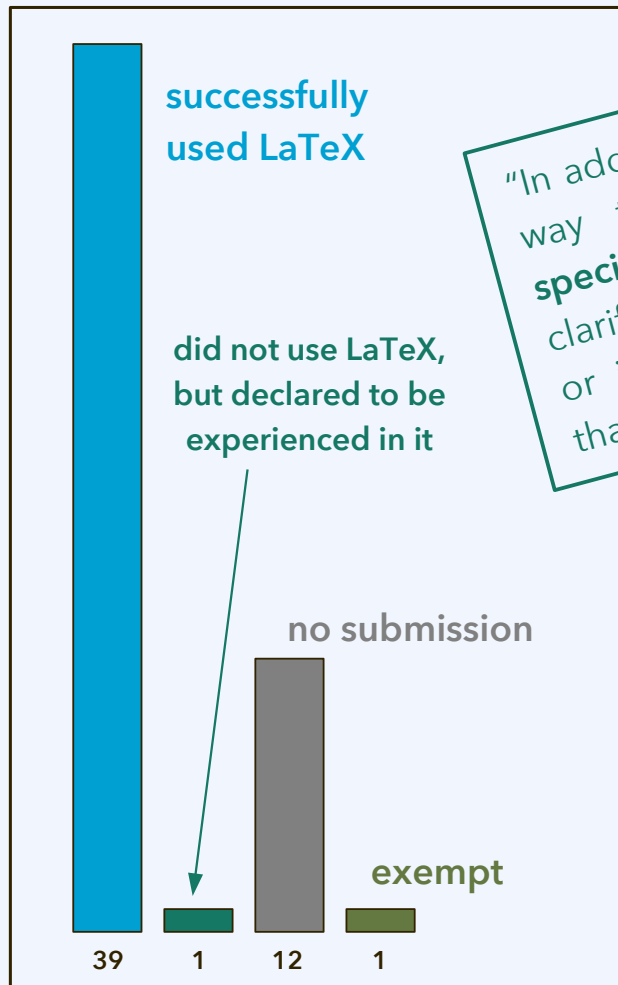
In last week's submission:

- It was an option for people to say they were not using LaTeX due to lack of knowledge/experience of it.
- Not a single participant declared this, and all seem to be managing it well.

For this week's **group task**:

- Please use LaTeX again + also BibTeX.
- Each group should select two papers that "all group members will read."
- Cite those, and for the bibliography style and conventions, follow practices that are common in the literature itself.

# Specification of tasks



last week's submissions

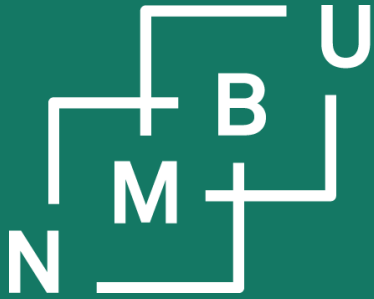
"In addition to this, please have a look at the way the **literature review submission** is **specified**. Do you see the need for further clarification, should it be specified differently or is any important information missing? If that is the case, please explain. Many thanks!"

**Nobody** felt that the literature review should be specified more precisely.

We can leave it as open as it is.

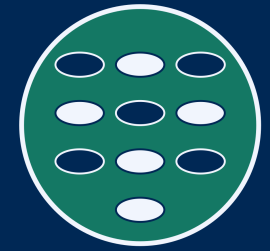
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# Schedule and presentations





# Highlight talk schedule for today

Monday, 25<sup>th</sup> September 2023

Peer feedback from ...

15.15 – 15.19 #1 Hedda Kleven Berg  
(undeclared topic)

15.19 – 15.21 #1 Alin Dak Al-Bab

15.24 – 15.28 #2 Kim Næss Kynningsrud  
Relationship between social media sentiment and stock price movements

15.28 – 15.30 #2 Olutomi S. Okubadejo

15.33 – 15.37 #3 Areej Malik  
(undeclared topic)

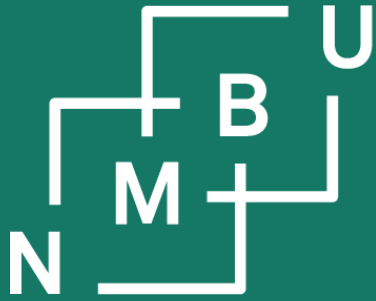
15.37 – 15.39 #3 August Noer Steinset

15.42 – 15.46 #4 Disha Preetha Kannan  
Estimation of bedrock morphology and sediment thickness

15.46 – 15.48 #4 Nivetha Suntharamoorthy

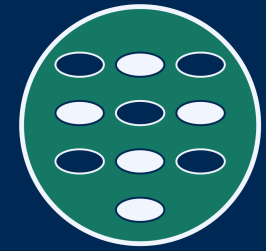
15.51 – 15.55 #5 Navneet Sharma  
Semantic parsing for log analysis, fault detection, and fault diagnosis

15.55 – 15.57 #5 Michael N. Tholstrup



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