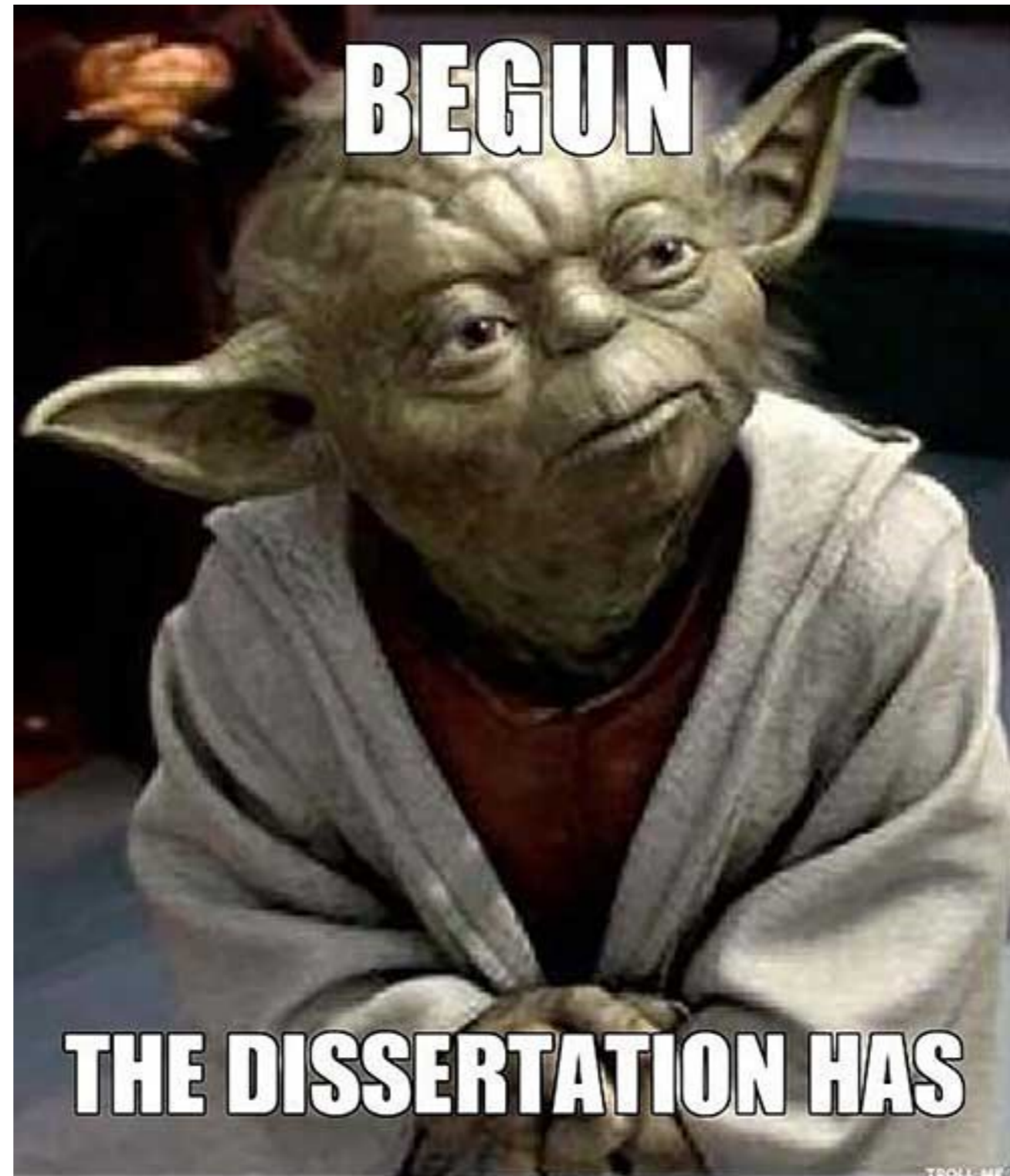


INFO SESSION MASTER'S DISSERTATION

Chantal Hongenaert

30/03/2023

YOUR MASTER'S DISSERTATION: WHAT DO YOU NEED TO KNOW?



YOUR MASTER'S DISSERTATION: WHAT DO YOU NEED TO KNOW?

- Timeline: what do you do when?
- How does the selection and assignment process work?
- How do we communicate?
- What is the master's dissertation aiming for (competences)?
- What can you expect from a promotor and tutor?
- What are your student rights and obligations?
- Scientific communication (Galileo, scientific integrity, template)?
- How will you be assessed?
- What do you do if something goes wrong?

YOUR MASTER'S DISSERTATION: WHAT DO YOU NEED TO KNOW?

– All information can be found on the faculty website : <https://www.ugent.be/bw/en>



Education Research Facilities About the faculty Contact Information for

- Students
- Prospective students
- Alumni
- Employees

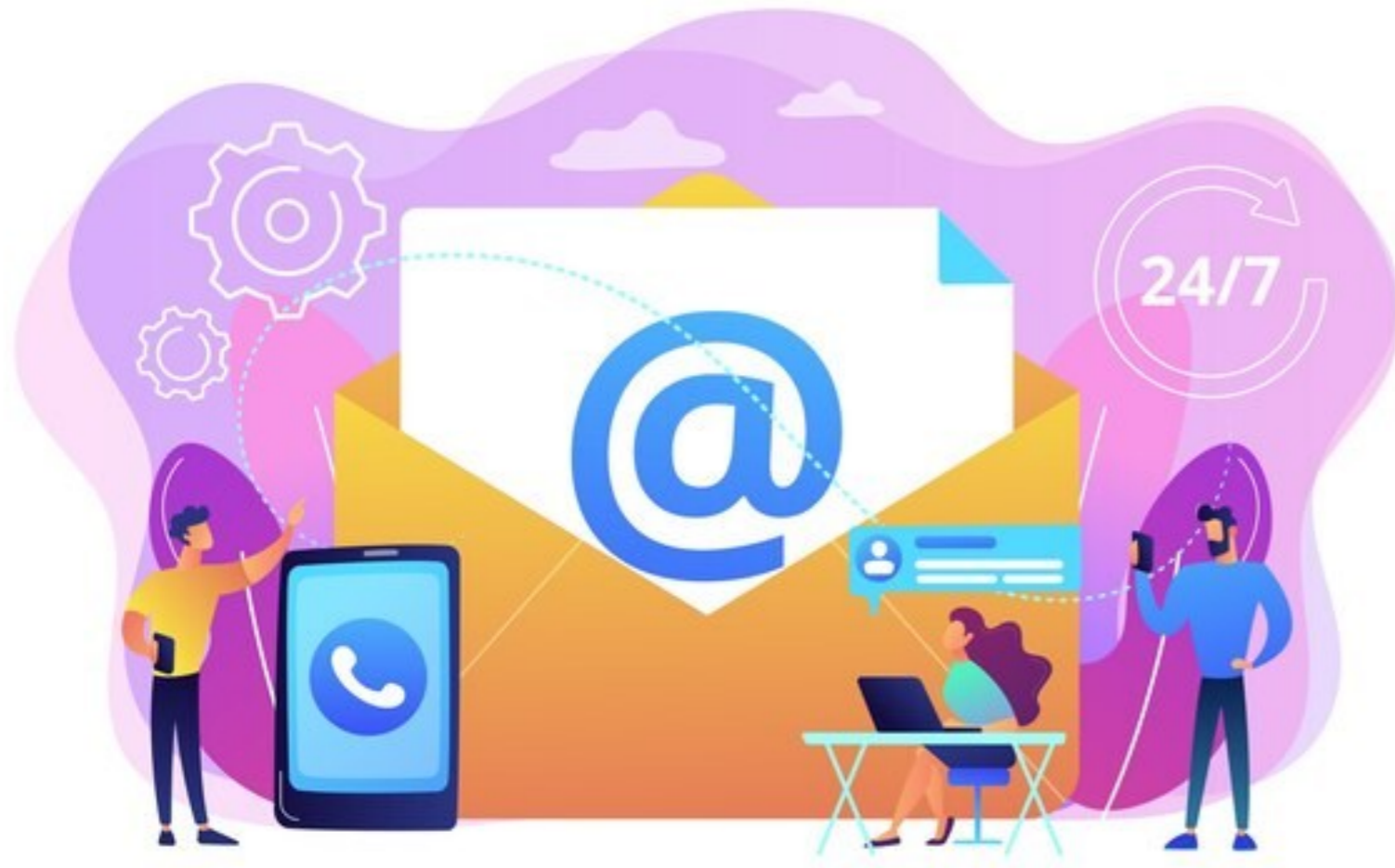


For prospective students <ul style="list-style-type: none">→ Bachelor Degree programmes→ Master Degree Programmes→ Obtaining a PhD→ Short trainings	For current students <ul style="list-style-type: none">→ Course schedule in Oasis→ Elective courses→ Personalized Learning Track→ Master's dissertation
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<https://www.ugent.be/bw/en/for-students/curriculum/master-dissertation>

YOUR MASTER'S DISSERTATION: WHAT DO YOU NEED TO KNOW?



How will we communicate?

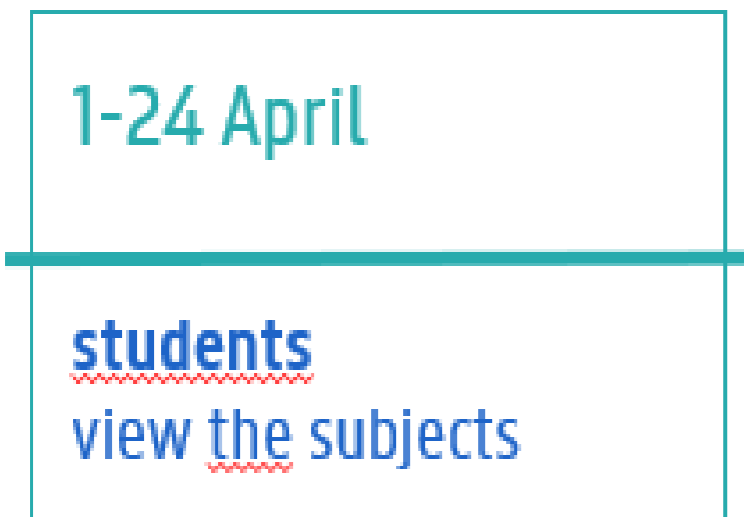
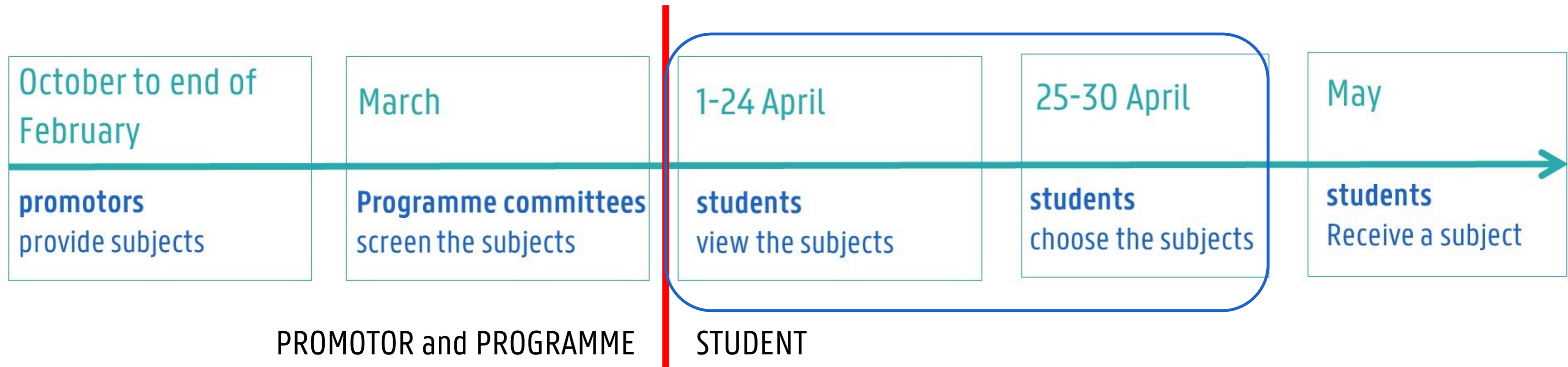
➤ Via mail

Masterdissertation.fbw@ugent.be

➤ Via Ufora

➤ Master infosite → check your announcements!

TIMELINE: SELECTION AND ASSIGNMENT OF THE SUBJECT



View the subjects in the [application](https://masterthesis-bw.ugent.be/en/onderwerpen/aanbod):

<https://masterthesis-bw.ugent.be/en/onderwerpen/aanbod>

TIMELINE: SELECTION AND ASSIGNMENT OF THE SUBJECT

1-24 April

students
view the subjects

View the subjects in the [application](#):

MASTERTHESIS-BW

HOME TOPICS

Overview master's dissertation topics

intro overview my topics

intro promotor department keywords all topics preferences

Using **the tabs** on this page, you can search for subjects by :

- Promotor
- Department
- Keyword

TIMELINE: SELECTION AND ASSIGNMENT OF THE SUBJECT

1-24 April

[students](#)
[view the subjects](#)

Make a shortlist of
promotor):

Boon Nico

Title

[Faithful attraction: Predicting Ulva reproduction based on temporal sh](#)

[Anaerobic co-digestion of organic fraction of municipal solid waste an](#)

[A clean getaway, identifying microbes escaping stressed biofilms](#)

[Drinking water research on a pilot scale](#)

[Nutritional role of bacteria in the different life stages of benthic copep](#)

[Overheersen ijzer-oxiderende en sulfaat-reducerende bacteriën het ka](#)

[Fast-screening tools to detect changes in the quality of drinking water](#)

[Let's get radical?! Degradation of organic pollutants by microorganism](#)

[Self-healing bio-based materials](#)

Faithful attraction: Predicting Ulva reproduction based on temporal shi...

add to my list

Keywords: aquaculture; seaweed; Ulva; microbiome; flow cytometry; quorum sensing

Description:

The green macroalga *Ulva* is of economic (edible seaweed) and ecological (green tides) importance in Asia. Unraveling the role of *Ulva*-microbiome interactions in reproduction is crucial to advance commercial aquaculture. The accumulation of quorum sensing (QS) signaling molecules, which depends on bacterial density, plays a role in *Ulva* development. However, it is not known whether QS signaling affects *Ulva* reproduction. An experiment will be set up where temporal changes in bacterial density and community composition during *Ulva* reproduction will be followed using flow cytometry and 16S rRNA gene sequencing. Wet lab experiments will be performed during summer at Ghent University Global Campus, Songdo, South Korea. Depending on the progress of the experiments further analyses can be performed at CMET in Ghent University, Ghent, Belgium.

Promotor(s): Nico Boon, Thijs Van Gerrewey

Tutor(s): Thijs Van Gerrewey

Confidential: No

For students of the programmes: IMCEGB, IMCHEM, IMLAND, IMMITE

Number of topic: 17

Number of students: 1

Part of the fieldwork is outside Flanders - exchange programme (Erasmus,...)



UNIVERSITEIT
GENT

<https://www.ugent.be/bw/en/for-students/curriculum/master-dissertation/choosing-master-dissertation#Makeaninformedchoice>

TIMELINE: SELECTION AND ASSIGNMENT OF THE SUBJECT

1-24 April

students
view the subjects

Overview master's dissertation topics

intro overview my topics

intro promotor department keywords all topics **my preferences**

Title

Faithful attraction: Predicting Ulva reproduction based on temporal shifts in bacterial density and composition

➤ Shortlist of topics will appear under 'my preferences'

To do:

➤ Contact the promotor and tutor before you choose!



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TIMELINE: SELECTION AND ASSIGNMENT OF THE SUBJECT

25-30 April



students
choose the subjects

Choose the subjects in the application:

<https://masterthesis-bw.ugent.be/en/onderwerpen/aanbod>

Choose **3** subjects from the list in order of priority or submit **your own subject**

Overview master's dissertation topics



- Find your own promotor
- Mail to masterdissertation.fbw@ugent.be
- Screening by OC
- Release by FSA

intro

overview

my topics

intro

promotor

department

keywords

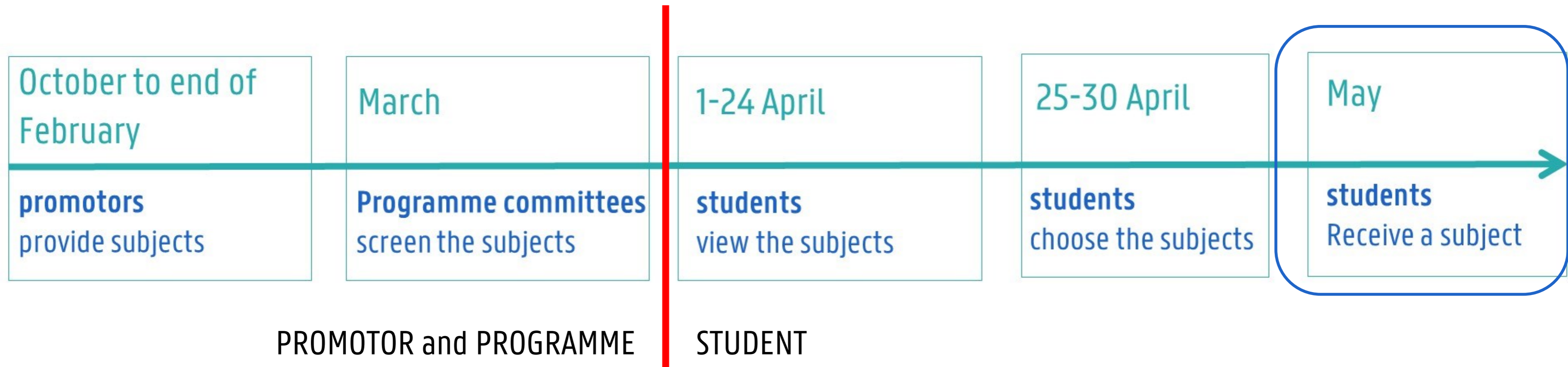
all topics

my preferences

UNIVERSITEIT
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<https://www.ugent.be/bw/en/for-students/curriculum/master-dissertation/masterdissertation.htm#1.Howtochooseyourmaster'sdissertationsubject?>

TIMELINE: SELECTION AND ASSIGNMENT OF THE SUBJECT



→ Promotor assigns the subject!

→ Announcement via UFORA → application

[intro](#)

[overview](#)

[my topics](#)

TIMELINE: SELECTION AND ASSIGNMENT OF THE SUBJECT

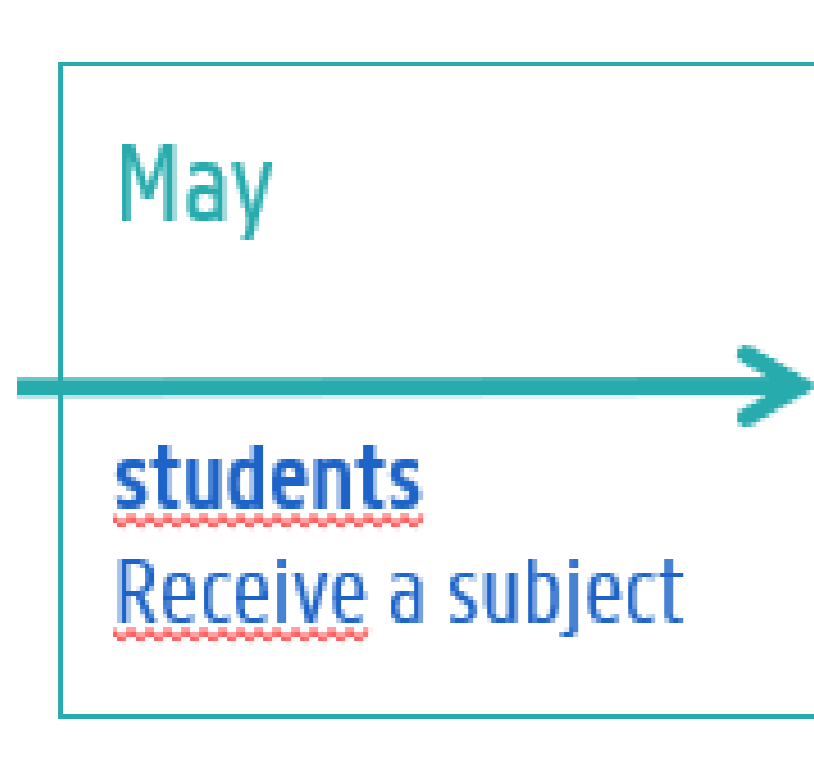
May

students
Receive a subject



ENGAGEMENT BETWEEN PROMOTOR AND STUDENT

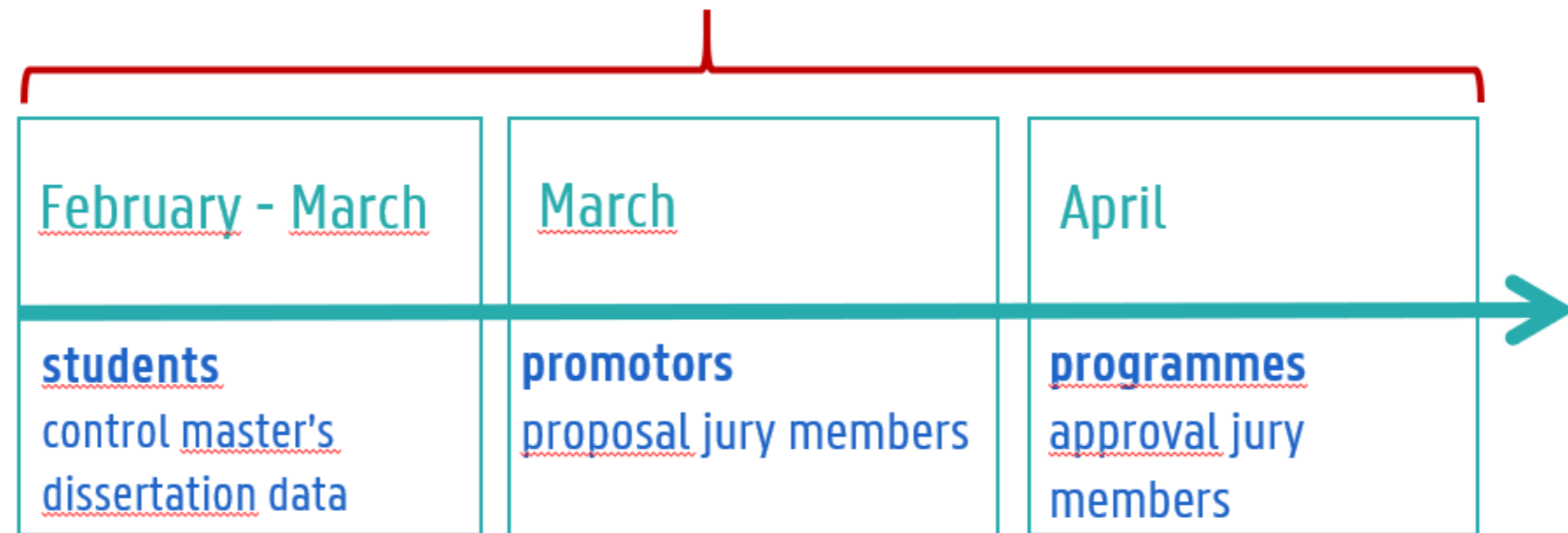
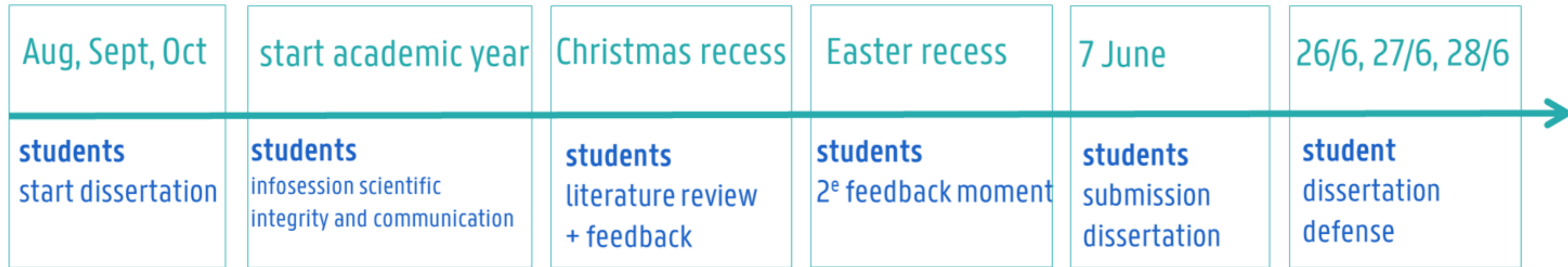
TIMELINE: SELECTION AND ASSIGNMENT OF THE SUBJECT



Contact your promotor and tutor for further arrangements

- Send a mail in the week of the catch-up activities
- Set the starting date
- Special status and related facilities?
- Ethics approval?
- Collaboration with a company → master's dissertation contract

GETTING STARTED WITH YOUR MASTER'S DISSERTATION: THE PROCESS



GETTING STARTED WITH YOUR MASTER'S DISSERTATION



Master's dissertation = the capstone of your programme (30SP)

Learning outcomes

- 1 Establish a well-defined research problem
- 2 Define/Formulate clear research questions and/or hypotheses
- 3 Establish a **suitable methodology** in accordance with the prevailing scientific standards of the research field
- 4 Systematically collect, search, critically interpret and integrate **scientific literature**
- 5 Collect data in an accurate way (existing and/or obtained through personal laboratory and/or fieldwork and/or surveys)
- 6 **Process data in a correct way**
- 7 Analyze data critically in a scientific context
- 8 Adjust independently the research process based on feedback from experts and critical self-assessment
- 9 Summarize and present data in a concise manner
- 10 **Write a report** on scientific and technical information, materials and methods, results and findings
- 11 Handle a problem critically, creatively **from an engineering perspective** with attention for ethical, social, international and sustainability aspects
- 12 Act according to the principles and good practices of **scientific integrity**
- 13 Show **independence, motivation, commitment, a drive for innovativeness and creativity, initiative and perseverance** to achieve learning outcomes 1 to 12
- 14 **Present, defend** and frame the research results vis-à-vis peers and experts

Quantitatively in case of non bio-engineer programmes



GETTING STARTED WITH YOUR MASTER'S DISSERTATION: THE PROCESS



GETTING STARTED WITH YOUR MASTER'S DISSERTATION: YOUR RIGHTS

YOUR master's dissertation → you are not in it alone

→ Guidance → identify planning and deadlines

→ Galileo

→ Dissertation report

→ Feed up, feedback, feedforward



GETTING STARTED WITH YOUR MASTER'S DISSERTATION: YOUR OBLIGATIONS

YOUR master's dissertation → take control

- Follow information and communication: [faculty website](#) / [UFORA](#)
- Respect the agreements made in the lab/company
- Respect agreements with promotor/tutor → Record them!
- Use [Galileo](#)
- Act with (scientific) integrity
- You do the work
- Ask for help

*If not you,
who?*

GETTING STARTED WITH YOUR MASTER'S DISSERTATION: OUTPUT

Written dissertation

- requirements: see [website](#)
- Personal work, some form of freedom
- [Galileo](#)

7 June

students
submission
dissertation

GETTING STARTED WITH YOUR MASTER'S DISSERTATION: OUTPUT

Defense

- requirements: see [website](#)
- Personal work, some form of freedom
- [Galileo](#)

26/6, 27/6, 28/6

student
dissertation
defense

GETTING STARTED WITH YOUR MASTER'S DISSERTATION: ASSESSMENT



PROCESS (30%)

Promotor (with input of tutor)



REPORT (40%)

Reading commissioners



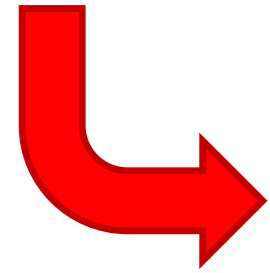
DEFENSE (30%)

Full jury

- Chairman
- Secretary
- Promotor
- 2 commissioners

GETTING STARTED WITH YOUR MASTER'S DISSERTATION

What to do with problems?



Working environment
Relation with promotor/tutor
Scientific integrity
Student rights and obligations
...

COUPURE



Luc.Tirry@UGent.be

[OMBUDSPERSON](#)

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