

# WELCOME !

# Students Statistics and Data Science

This session will be recorded



**Universiteit  
Leiden**  
The Netherlands

# Who am I ?

## **Saskia le Cessie**

- Professor of Medical Statistics at the Leiden University Medical Center
- Department of Biomedical Data Sciences and Department of Clinical Epidemiology
- Program Director of the master Statistics and Data Science



# The program of this afternoon

1. A general introduction
2. The program in a nutshell
3. Important people and things to know
4. Mentors



# Who are you?

## Please raise hands

- I am born in Leiden (or close by)
- I have visited Leiden as a child
- I did my Bachelor studies in Leiden
- I did my Bachelor at another Dutch university
- I did my Bachelor in Europe (not in the Netherlands)
- I did my Bachelor outside Europe
- This is my first time in Leiden



# Who are you?

## I did a Bachelor in:

- Social and behavioural sciences
- Biomedical sciences
- Agricultural sciences (Wageningen)
- Biology
- Mathematics
- Statistics
- Econometrics
- Something else ...



# An international master. We stand for:

- Inclusiveness
- Equal treatment
- Openness
- Respect



**A master where everyone feels welcome and safe**



# The master

Organised by 4 different statistics/data science groups

- Methodology and Statistics, Institute of Psychology
- Mathematical Institute
- Department of Biomedical Data Sciences,  
Leiden University Medical Center
- Biometris, Wageningen University and Research

+ teachers from other institutes



Universiteit  
Leiden  
The Netherlands



Leids Universitair  
Medisch Centrum



WAGENINGEN  
UNIVERSITY & RESEARCH

# The teachers

- Statisticians and data scientists with a large variety of backgrounds
- They are all very approachable
- Do not hesitate to ask questions in class or after class
- Speak up if things are unclear (especially for assessments)





# Teaching

- The program is dense, you may be overwhelmed at start
- Go to lectures, and in particular to working groups (even if they are not mandatory)
- Find others to study together
- Teachers will try to align deadlines, if that does not work out, speak up.

# Recording of lectures

- Teachers have been asked to record their lectures; some will provide recorded lectures of last year
- Helpful for students in their learning progress



# Evaluation of teaching

- Via anonymous online questionnaires
- In lunch evaluations

Program committee organizes evaluations

PLEASE FILL IN THESE SURVEYS AND COME TO THE EVALUATION MEETING

**If something is not going well in a course, please speak up, discuss with your mentor, or contact the students in the Program Committee or contact me (and do not wait until the evaluations)**

# Programme Statistics and Data Science

- **First semester:** core courses
- **Semester 2 and 3:** combination of mandatory and elective courses
- **Fourth semester:** a thesis project

	Year1.Sem 1	Year1.Sem 2	Year2.Sem 1	Year2.Sem 2
Mand- atory	<ul style="list-style-type: none"><li>• Statistics and probability (9)</li><li>• Mathematics for statisticians(3)</li><li>• Statistical computing with R (6)</li><li>• Lin and Generalized lin. Models (6)</li><li>• Linear algebra(3)</li><li>• Statistics and Data Science in Practice(3)</li></ul>	<ul style="list-style-type: none"><li>• Essentials for Data Science (6)</li><li>• Computational Statistics (3)</li><li>• Statistical Learning(6)</li><li>• Bayesian Methods I (3)</li><li>• Causal inference I(3)</li><li>• Essentials of Mixed and longitudinal Modelling (3)</li></ul>	<ul style="list-style-type: none"><li>• Statistical Consulting(5)*</li><li>• Preparation of the thesis project(4)*</li></ul>	<ul style="list-style-type: none"><li>• Thesis (30)*</li></ul>
Electives		<ul style="list-style-type: none"><li>• Survey Methodology(6)</li><li>• Survival analysis (6)</li><li>• Design and Analysis of Biological Experiments(6)</li><li>• Data Visualization(6)</li></ul>	<ul style="list-style-type: none"><li>• High-dimensional data analysis (6)</li><li>• Statistical Genetics (6)</li><li>• Psychometrics and SEM (6)</li><li>• Nonlinear (Mixed) Data Analysis(6)</li><li>• EMOS Core Module(12)</li><li>• Causal inference II (3)</li><li>• Bayesian Methods II (3)</li><li>• Advanced Statistical Learning (3)</li><li>• LIACS Advances in Data Mining(6)</li><li>• LIACS Introduction to Deep Learning (6)</li></ul>	
	<ul style="list-style-type: none"><li>• Statistical Consulting and Preparation of the thesis project are given twice a year, in the fall and spring semester.</li><li>• The thesis can be started in the fall and spring semester</li></ul>			

# Learning lines

	Year1. Sem 1	Year1.Sem 2	Year2.Sem 1	Year2. Sem 2
Mandatory	Statistics and probability (9) Mathematics for statisticians (3) Statistical computing with R (6) Linear and generalized Models(6) Linear Algebra (3) Statistics and Data Science in Practice (3)	Essentials for Data Science (6) Computational Statistics(3) Statistical Learning(6) Bayesian Methods I (3) Causal inference I (3) Mixed Modelling (3)	Statistical Consulting(5) Preparation thesis project(4)	Thesis (30)
Medical Statistics		Survival analysis (6)	High-dimensional data analysis (6) Statistical genetics (6) +9 EC	
Biostatistics-Biometrics		Design and analysis of biological experiments(6)	High-dimensional data analysis (6) Statistical genetics (6) +9 EC	
Official Statistics EMOS		Survey Methodology(6)	EMOS core module (12) +9 EC	
Data Science		Data Visualization (6)	Advances in Data Mining(6), Introduction to Deep Learning (6) +9 EC	
Psychometrics and Sociometrics		Survey Methodology(6)	Psychometrics and SEM (6) Nonlinear (Mixed) Data Analysis(6) +9 EC	



# EMOS degree

Since 2019: THE EMOS CORE MODULE  
(Elective)

- You need to do Survey Methodology and the EMOS Core Module (from the Electives)
- You will do your Thesis Project at Statistics Netherlands
- You obtain this title in addition to your regular title



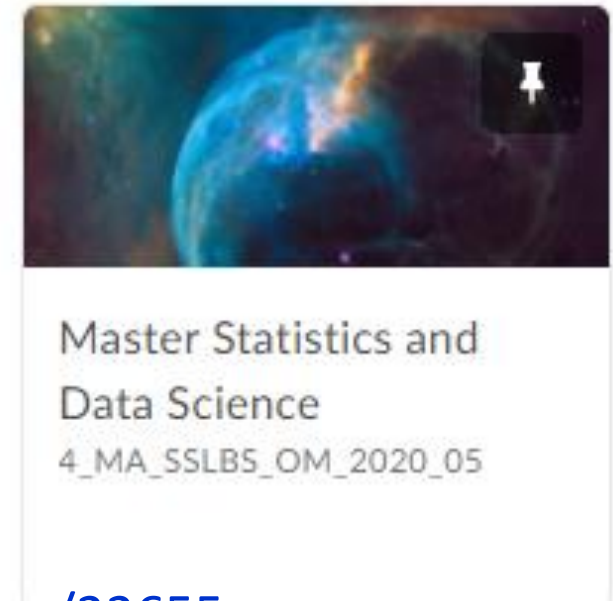
# MyStudyMap

- The place to enroll for courses
- The place to enroll for exams
- You **ALWAYS** have to re-confirm for participating in an exam.
- **Final deadline:** 10 days before the exam;
- Also for retakes;
- Also when the administration enrolled you for the exam/retake;
- If you do not re-confirm, you cannot participate in the exam/retake;
- You get several reminder e-mails from MyStudyMap to your u-mail account. Check your spam-folder as well.
- Administrative difficulties? E-mail [ssa@science.leidenuniv.nl](mailto:ssa@science.leidenuniv.nl). Make screenshots to show the problems

# Brightspace



- Teachers will contact you via Brightspace
- By enrolling in a course via MyStudyMap, you are automatically enrolled into Brightspace
- We have a general Brightspace module for all Statistics and Data Science students
- We communicate to you via this module
- Important information on this website
- This presentation and recordings will be placed there
- You should have been enrolled
- If not: self-enrollment link:  
<https://brightspace.universiteitleiden.nl/d2l/le/discovery/view/course/22655>



# General Brightspace module



Master Statistics and Data Science



Saskia le Cessie  
as Student



Course Home Content Grades Course Tools ▾ Help ▾

▶ For season 2023-2024

▶ General Information

▶ Practical information on  
many topics

Introduction and  
information meetings

Your rights and obligations

▶ Thesis defenses summer  
2023

▶ Information for teachers

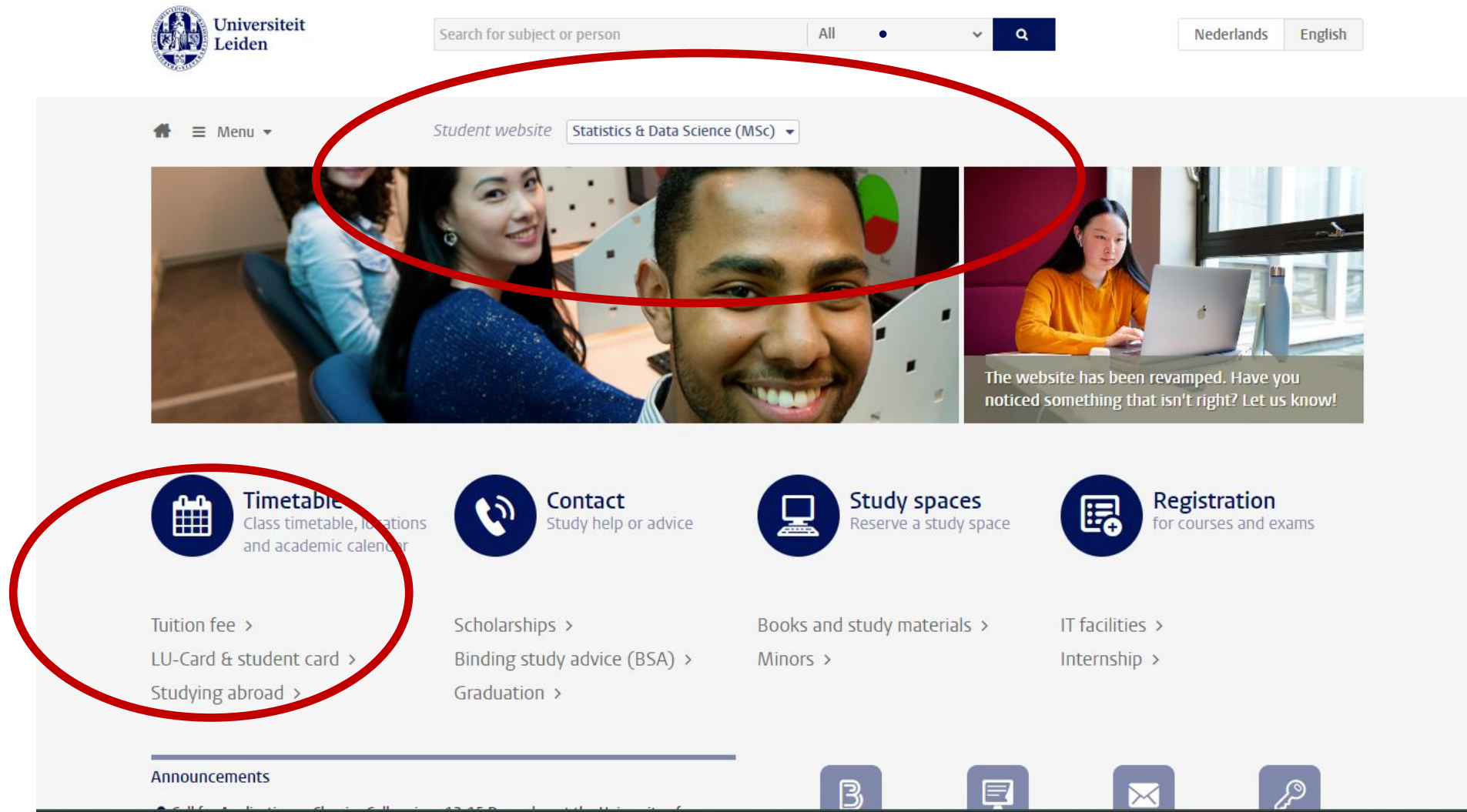


<https://brightspace.universiteitleiden.nl/d2l/home/22655>

For season 2023-2024

# The student website

- <https://www.student.universiteitleiden.nl/en?cf=science&cd=statistic-and-data-science-msc>





## Study &amp; studying

## Study

## &gt; New student

## &gt; Education information

Study programme

Study plan

Online education and  
assessments

Books and readers

Timetables

Academic calendar

Course and exam enrolment

Elective credits

Minors

Gaining research experience

Internship or research project

Thesis and paper writing

Safety

# Timetables

General

Science

Statistics &amp; Data Science (MSC)

## MyTimetable

MyTimetable is the tool to consult timetables of all programmes of the Faculty of Science. MyTimetable offers you your timetable in a simple, personalised and clear manner and provides a complete overview of all your educational activities.

Create a personal timetable



Integrate with your own calendar



Building names in MyTimetable



Instructions



## Timetable

The timetable as per academic year 2022/2023 will be as follows:

### Contact



Laura van Kempen-  
Helmsing  
Education Coordinator

+31 71 527 8018

coordinator@math.leidenuniv.nl



Michelle Krens  
Student Affairs Staff Member

coordinator@stat.leidenuniv.nl

### Documents

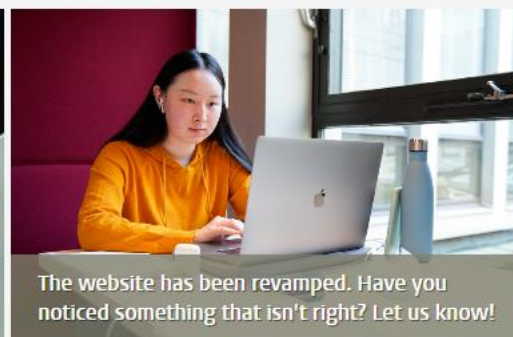


Manual MTT (joint  
degrees)



Manual MTT

### See also

**Timetable**Class timetable, locations  
and academic calendar**Contact**

Study help or advice

**Study spaces**

Reserve a study space

**Registration**

for courses and exams

Tuition fee &gt;

LU-Card &amp; student card &gt;

Studying abroad &gt;

Scholarships &gt;

Binding study advice (BSA) &gt;

Graduation &gt;

Books and study materials &gt;

Minors &gt;

IT facilities &gt;

Internship &gt;

## Announcements



[Tuition fee >](#)
[Scholarships >](#)
[Books and study materials >](#)
[IT facilities >](#)


[LU card & student card >](#)
[Binding study advice \(BSA\) >](#)
[Minors >](#)
[Internship >](#)

[Studying abroad >](#)
[Graduation >](#)


### Announcements

- Student card now digital only
- Discover The Hague student life with the HI The Hague introductory activities
- Beware of phone scams!
- Student Affairs Front Office Leiden: extended opening times at start of semester
- Registration Bachelor Honours Classes 1st semester
- Wanted: buddies for students with autism


[More announcements >](#)




Brightspace




uSis




uMail




Account Services



Report incident



Prospectus



Schedule

### Events

02 SEP

Lecture | Part of Open Lecture Series  
EUniWell Open Lecture Series:  
The role of science communication in the medical field  
Dr. Imre Varjú


05 SEP

Lecture  
Artificial "Intelligence" versus Human Dignity: Issues of Fairness and Power in Algorithmic Decisions  
Francien Dechesne


06 SEP

Lecture | Opening of the Academic Year


### News



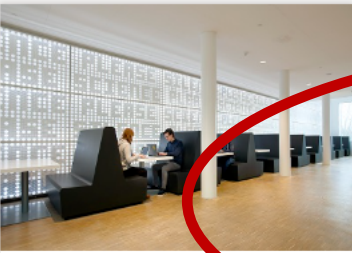
25 August 2022  
Two directors of education for LIACS



25 August 2022  
'When I talked about the materials for an energy transition in 2010, people almost started to laugh'



22 August 2022  
Students from all around the world discover The Hague



### Studying at the Faculty of Science

What does studying at our faculty look like in times of corona?

### Welcome to the Master Statistics & Data Science

- General information and Specialisations
- Study Advisor
- Program Committee
- OER - Rules and Regulations

# First Break

- Introduce yourself to someone sitting in the neighborhood of you
  - Tell them who you are
  - What you have done so far
  - Why you chose for this master program
  - What you expect
  - What your hobbies are

# Second hour: important persons and more practical information



Universiteit  
Leiden  
The Netherlands



# The study coordinators



Michelle Krens



Laura van Kempen



Chantal van den Berge

**coordinator@stat.leidenuniv.nl**  
**Primary contact address**

# Introduction Day: MSc Statistics and Data Science

Garnet Akeyr  
Study Advisor

# My role

- Study plan
- Course advice
- Courses from other programmes
- Support for petitions
- Redirection to other people

# Study plan

- Programme goes poorly – which courses should you take to get back on track? Also, when should you take them?
- Ideas on what you want to specialize in – what courses can you take to focus on data science?
- Course X is hard – can I design my study plan so that I can focus more on course X i.e. by taking one less course
- Need to work or cannot study under a full course load – how do I do this?

# Course selection

- Is it advised to take X course if I haven't yet taken Y?
- What electives are generally seen as interesting if I want to specialize in a given area?
- What courses do people struggle with so I can prepare ahead?



# MyStudyMap

- <https://studentuniversiteitleidenscreenstepslive.com/a/1479687-faq-student-portal>

# Courses from other programmes

- I want to take a course in another department / another university. Can I do so?

# Support for petitions

- I want to change my study programme, i.e. replace a course, or be exempt from a course, etc. How do I do so?
- [Link](#)

# Redirection to other people

- Therapists / student deans for mental issues or external help
- Issues with Usis / tuition / enrollment.
- Questions about internships/theses and how to find a position.
- In general, if you're not sure who to ask, you can ask me and I can look into it!

# Mentors

- Everyone is in a mentor group
- Great way to get to know others in the programme
- 100% optional, but highly recommended

# Drop by and say hello!

- Office is Snellius 213
- Available online or in-person
- I'll try and set up a system so you can schedule a quick, 10 minute intro meeting (optional, but good to do!)

# Program Committee

- **Who are we?**
  - 4 Students & 4 teachers
  - Different years & different faculties
- **What do we do?**
  - Assure quality of the study program, by:
    - Evaluations
    - OER
    - Advisements
    - Giving feedback on teaching
  - And other fun activities:
    - End of Year activity
- **Do you have anything you want addressed? Contact us!**  
**[PC@stat.leidenuniv.nl](mailto:PC@stat.leidenuniv.nl)**

## **Students PC 2023-2024**

1st year – **open**

1st year – **open**

2nd year - Vicky Gkika

2nd year - Fabien Bijsterbosch

2nd year - Gabriele Fresia

2nd year - Katie Lindefjeld

## **Teachers PC 2023-2024**

FSW - Wouter Weeda

LUMC – Eric van Zwet

MI – Mirko Signorelli

WUR – Carel Peeters



# Program Committee

**We are looking for new members! Join us!**

- You can:
  - Create a better teaching & learning environment
  - Advise on current curriculum, academic assistance & tools for students, evaluation processes
  - Integral to making the program the best it can be!
- What it takes:
  - 9 meetings per year
  - Committing for at least 1 year, preferably 2
  - Be a soundboard for the other students
- What you get in return:
  - The opportunity to make the program better
  - Interact & meet with professors on an other level
  - Have your voice be heard

**You can apply by emailing a short motivation before 11<sup>th</sup> of September to: [PC@stat.leidenuniv.nl](mailto:PC@stat.leidenuniv.nl) . Feel free to contact us if you have any questions!**

# Board of Examiners

- Safeguarding the quality of tests and examinations
- Review exemption requests for courses (you should submit a petition via Usis, please check our general Brightspace module of this [website](#) for more information)
- Approve elective courses, not listed as pre-approved in the programme
- Treating cases of plagiarism and fraud;  
(this is taken very seriously)
- Plagiarism: assignments should be in your own words,  
and not copied from others
- [boardofexaminers@stat.leidenuniv.nl](mailto:boardofexaminers@stat.leidenuniv.nl)



# Leidsche Flesch

- See separate slides

VVSOR Young Statisticians present:

# Pub Quiz & Game Night | 14.09 19:30

Join us for a night of free drinks,  
games, and all things statistics!



Café Einstein

Nieuwe Rijn 19

2312 JC, Leiden



# Route Optimisation Pub Crawl



**What: Plan an optimal pub crawl route!**

**When: Friday, 8th of September; 13:00**

**Where: 'De Rotterdam' - Wilhelminakade 139, 3072 AP Rotterdam**

**Sign-up: Please email [datascience@vvsor.nl](mailto:datascience@vvsor.nl) ASAP!**

# The mentors

- 6 mentors, second+ year Statistics and Data Science students
- They're here and will meet with you afterwards
- They will be a 'buddy' for you, helping you to:
  - Meet other students
  - Get adjusted to the master program, to Leiden, and to the Netherlands
- They are not
  - Official study advisors, Counselors or Teachers

# Get the latest updates of our Faculty on social media!



@LeidenScienceEN  
@LeidenScience



Leidenscience



Faculty of Science  
Universiteit Leiden



Podcast Wetenschap  
Op je Gemak

