# **SUCCESS WITH YOUR MASTER !**



# UNIVERSITY OF AMSTERDAM

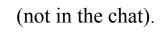
Welcome to the *Meet & Ask Zoom webinar* of Computer Science (Joint Degree with VU)



We start at 16:00



Questions? Please ask them in the Q&A





This session is being recorded. Your camera and microphone are automatically turned off.

Thanks and enjoy this presentation



#### **UvA Master Introduction 16 Feb 2021: Computer Science**

#### Your hosts today:

#### Alban Ponse

UvA coordinator Master CS Associate prof. Computer Science (UvA)

A.Ponse@uva.nl /
https://staff.fnwi.uva.nl/a.ponse/

Erik Link & Wolf bij 't Vuur Master students Computer Science





# VRIJE UNIVERSITEIT AMSTERDAM

# Welcome to Amsterdam!

As a Computer Science student you are offered the best of two universities within a single Master program.

Vrije Universiteit Amsterdam, Dept. of Computer Science
University of Amsterdam, Informatics Institute

You will take courses by lecturers from both universities, at both locations (VU campus and Science Park).

Joint degree: one diploma issued by both universities

Larger selection of courses

More research opportunities for graduation projects and world-class researchers at your finger tips

More of everything...

But you'll need to travel between two campuses and cope with two different administrative systems



2 years program

120 ECTS credits

taught in English

international student population

excellent job perspective in industry (in NL and abroad)

stepping stone for a career in industry or academia

### 5 different tracks

- ♦ 5 compulsory courses per track
- Master core (for all tracks)
- constrained choices
  - programming
  - software engineering
  - security
  - foundations
  - mathematics
  - societal context
- free choices (some courses are pre-approved)

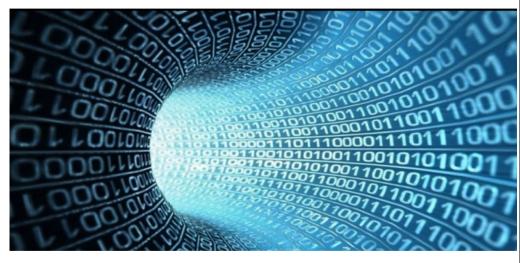
**Focus:** How to cope with the enormous amounts of data

on e.g. the Internet and social media and in companies

Compulsory courses:

Information Visualization

**Data Mining Techniques** 



Web Services and Cloud-based System

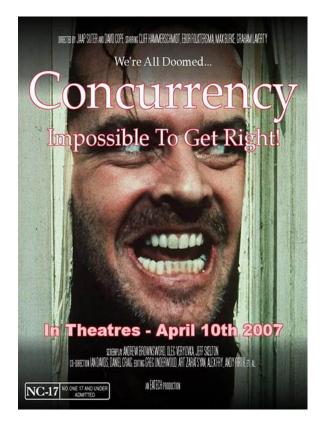
Web Data Processing Systems

Large Scale Data Engineering

# **Focus:** Apply formal methods in computing and concurrency

# **Compulsory courses:**

Protocol Validation Logical Verification Advanced Logic Term Rewriting Systems Distributed Algorithms



# **INTERNET AND WEB TECHNOLOGY**

Focus: Technology for Internet and Web

Compulsory courses:Advanced Computer NetworksDistributed SystemsDistributed AlgorithmsWeb Services and Cloud-based Systems

Performance of Networked Systems



### PARALLEL COMPUTING SYSTEMS

Focus: Large-scale parallel computing

(clusters, grids, clouds, mainframes)

# **Compulsory courses:**

**Parallel System Architectures** 

Programming Large-scale Parallel Systems

**Parallel Programming Practical** 

Programming Multi-core and Many-core Systems

**Performance Engineering** 



**Focus:** Mastering complex software systems for a sustainable digital society

# **Compulsory courses:**

Green Lab Service Oriented Design Software Asset Management Software Architecture Software Testing



Constrained choice, social context of computer science:

- History of Digital Cultures on history of computing
- ICT for Development on ICT in developing countries
- > ICT4D in the Field, an ICT project in a rural community
- > *E-commerce Law* on legal issues for on-line business
- > Entrepreneurship in AI and CS on starting a company

# **Literature Study and Seminar**

# Master Project (30 ECTS)



Ensuring breadth of each individual study program

Constrained choice modules (18-24 ECTS):

- \* programming
- \* software engineering
- \* security
- \* foundations
- \* mathematics

Each to be chosen from a predefined set of choices

Partially covered by your track's core



Free choice (24-30 ECTS):

Courses from other tracks and other courses from constrained choices are pre-approved

Any course from a pre-approved list of suggestions

Other courses (at Master-level) from Computer Science, Computational Science, Artificial Intelligence, Bioinformatics, Logic, ... (to be approved by the exam committee)

#### Do you want to develop your own study program ?

Devise your own *free* Master program and get it approved by the exam committee

#### Want to go to industry ?

Do your graduation project as an internship with a company (or do an *Industrial Internship* for 6 ECTS)

#### Want to go for a larger research project ?

Combine *literature study, individual project,* and *Master project* into a scientific research project of up to 42 ECTS

# Master program coordinators

# CS tracks:

- BDE: *Dr. Adam Belloum*
- FCC: Dr. Femke van Raamsdonk femke
- IWT: Dr. Jacopo Urbani
- PCS: Dr. Jacopo Urbani
- SEG: Dr. Ivano Malavolta

<u>a.s.z.belloum@uva.nl</u> Onk <u>femke@cs.vu.nl</u> <u>j.urbani@vu.nl</u> <u>j.urbani@vu.nl</u> <u>i.malavolta@vu.nl</u>



Double degree programs for MSc students (e.g. GSEEM for the SEG Track)

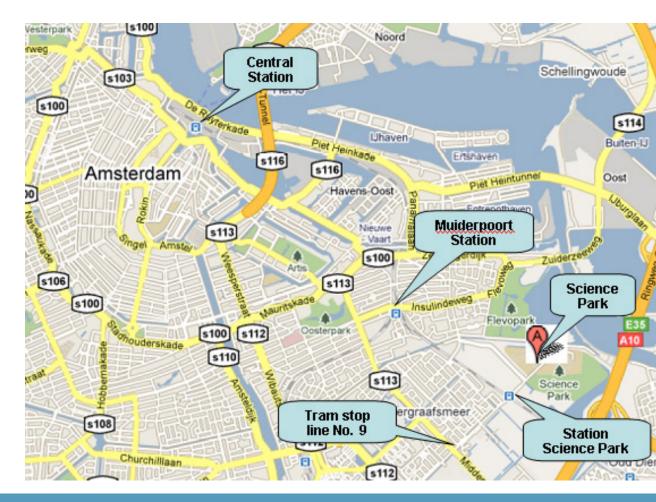
- You follow year 1 of the program at the VU
- You follow year 2 of the program at the partner university



# **COURSES AT THE UNIVERSITY OF AMSTERDAM**

## Several courses are at Science Park

Beware to register for UvA courses and exams in time



Faculteit der Exacte Wetenschappen



# MSc Computer Science (student registration@VU) Your courses at the University of Amsterdam (UvA)

#### Location: SCIENCE PARK AMSTERDAM

http://www.scienceparkamsterdam.nl/en/contact/directions-by-public-transport

#### Course-registration@UvA (theory):

1.you will receive a UvA-net-ID from the (UvA) Central Registration Office 2.then you can register for courses via <u>https://datanose.nl/#masterenrol</u>

#### Following courses@UvA (practice):

1.visit UvA-classes that you want/have to; timetable at <a href="https://rooster.uva.nl/">https://rooster.uva.nl/</a> 2.your registration is completed in 2 weeks

Contact person for your UvA-courses: dr. Alban Ponse <u>https://staff.fnwi.uva.nl/a.ponse/</u>

