



## *Study abroad at the* **Department of Advanced Computing Sciences**

### **Study in Maastricht**

Maastricht University is a young, rapidly growing and highly recommended research university in the Netherlands. Six faculties host a wide range of bachelor, master, graduate and post-graduate programmes.

At this moment, Maastricht University (UM) has around 16,000 students. One in three students at UM comes from abroad. Together they represent more than 130 different countries. Next to these regular students, there are approximately 1000+ exchange students who come to Maastricht each semester.

The Department of Advanced Computing Sciences - sometimes abbreviated as DACS - is Maastricht University's largest and oldest department broadly covering the fields of artificial intelligence, data science, computer science, mathematics and robotics.

We maintain a large network of public and private partners through our research collaborations and through the award-winning KE@Work programme. In addition, our staff teaches approximately 1200 bachelor's and master's students in specialised study programmes in Data Science, Artificial Intelligence and Computer Science.

**“ Exchange opens your life to opportunities and experiences you never thought you'd have. It's a time of my life which will always evoke a sense of achievement, adventure and growth.”**

Maastricht is an internationally oriented city that is characterized by its history, central European location and the joie de vivre of its inhabitants.

With a mix of Dutch, Belgian, and French influences, it offers a unique cultural experience, excellent shopping, and world-class dining. Plus, it's one of the oldest cities in the Netherlands, packed with historical sites and scenic river views!



### **BSc Data Science and Artificial Intelligence**

In modern society, knowledge has become a very important factor. Raw materials have to be shipped fast and efficiently from and to factories; when a flood is imminent, large populated areas have to be evacuated; doctors have to make their diagnosis based on the outcomes of hi-tech research. Through taking the Data Science and Artificial Intelligence programme you will learn how to tackle such problems.

In the Data Science and Artificial Intelligence programme, the emphasis is on the techniques and possibilities within the fields of Mathematics, Artificial Intelligence and Computer & Data Science that can simplify many different decision-making processes. In project groups, together with fellow students you will apply mathematical and computer science techniques to solve problems.

### **BSc Computer Science**

The bachelor's programme in Computer Science teaches you the ins and outs of software. Whether it's a supercomputer used for scientific research, computers in everyday objects like cars, watches and fridges, or your gaming console: you will learn how to make it run as smooth as possible.

There are many different ways to achieve this. Should the software run more efficiently? Does it need to be more secure, more accessible, or easier to use? You can find the tools to answer these questions in the many different fields of Computer Science. Our curriculum is designed to let you gradually discover your interests within this broad field and to develop your employability skills.

### **MSc Data Science for Decision Making**

Data Science for Decision Making is an applied study combining areas in mathematics, computer science and engineering. Focus is on mathematical modelling, knowledge engineering, decision making and optimization, with applications in biomedical engineering, bioinformatics, economics, telecommunications and industry.

Special attention is devoted to the use and the development of computer software to solve a wide variety of problems.

A highly qualified team of enthusiastic scientists and staff provides you with quality education.

### **MSc Artificial Intelligence**

Artificial Intelligence is an applied study that focuses on the development and application of intelligent systems possessing abilities such as learning, reasoning and collaborating. Intelligent systems apply these abilities to perform tasks more efficient, more optimal, or in a distributed way.

Application areas range from planning and diagnosis to image recognition, from traditional games such as chess to modern interactive computer games, and from information retrieval to data mining.



**Maastricht University**

**Department of Advanced Computing Sciences**

### Other information

Department of Advanced Computing Sciences (DACS) at the Faculty of Science and Engineering covers the fields of artificial intelligence, computer & data science, mathematics and robotics.

All programmes offered by DACS have been recognised by the independent foundation for accreditation of education programmes (QANU) as the best programmes in their category in the Netherlands!

### Educational System

Project Centred Learning (PCL): students work on projects in small groups next to lecturers, matching what you learn in theory into applications, learning on team-work and building job preparing competences.

### Accommodation

<https://mymaastricht.nl/housing/>

### Total living costs

around €1300 a month

### Language courses

[www.maastrichtuniversity.nl/languagecentre](http://www.maastrichtuniversity.nl/languagecentre)

### Deadline for application

15 April for Fall Semester

1 November for Spring Semester

**Language of instruction** English

**Structure** 2 semesters a year

**Fall semester** Sept - 1st half Jan

**Spring semester** 2nd half Jan - July

**Semester Load** max 30 ECTS

**Courses** All graduate and undergraduate courses are open to exchange students.

**Topics** DACS offers courses mainly in Mathematics, Artificial Intelligence and Computer Science.

**Nomination** by home institution.

### Contact

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<https://www.maastrichtuniversity.nl/research/department-advanced-computing-sciences>

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