



SUMMER UNIVERSITY APPLIED QUANTUM COMPUTING 3 - 14 July 2023

Discover how Quantum Computing is changing the ICT landscape. Learn hands-on skills in current applications and visit institutions at the forefront of global quantum computing revolution during our 2-week summer course.

Develop hands-on skills and learn about the potential of Quantum Computing. Includes guest speakers and visits to leading research hubs.

3 - 14 July 2023

Quantum Computing is making incredible progress in both hardware and software. Although fault-tolerant, full-scale quantum computing is not expected in the next five years, companies must get ready for a technology that will be embedded in many advanced fields. Quantum computers' potential use as a security threat also makes quantum security an urgent and growing topic.

The Applied Quantum Computing summer course offers several perspectives on quantum computing.

Students will receive an introduction to understanding and developing applications for this far-sighted and rapidly developing topic.

Who should join?

Students fascinated by new and emerging technologies.

Requirements:

- Basic Programming Skills
- Interest in Mathematics

Learning objectives

During this course, you will learn:

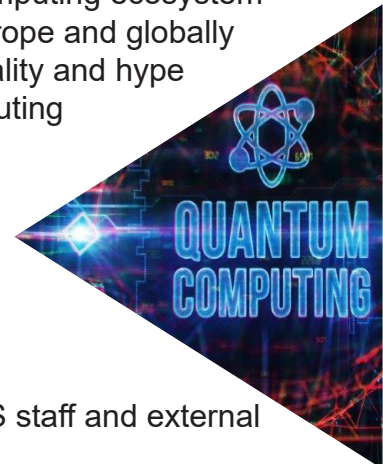
- How to implement a basic quantum algorithm and understand behaviour
- How to use a platform specific for a quantum computing environment to implement a basic application
- About the international race to engineer a quantum computer
- About the quantum computing ecosystem in the Netherlands, Europe and globally
- To discern between reality and hype around quantum computing

Learning activities

- Presentations by AUAS staff and external speakers
- Quantum Computing workshops where you learn hands on skills
- International project teams of 3 to 5 students
- Team progress reports and presentations
- Visits to scientific and commercial quantum computing organisations.

Teaching methods

- Lectures
- Workshops with exercises
- Teamwork
- Presentations by students



Lecturers

Mr. Marten Teitsma, Mr. Ed Kuipers and Mr. Bernardo Villable Frias

Course fee

€500

You'll be sent information on how to pay after registration.

Accommodation

Participants are responsible for their own accommodation. Amsterdam gets very busy in the summer and affordable accommodation is scarce. We therefore recommend organising accommodation as soon as possible.

Application

To apply, please register via our website and follow the instructions.

[Applied Quantum Computing Summer University](#)

Contact

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