HSLU Hochschule Luzern

MSc in IT, Digitalization & Sustainability

How can information technologies contribute to global sustainable development in the context of digital transformation?

Lucerne University of Applied Sciences and Arts
School of Computer Science & Information Technology

Peter H. Wullschleger
Head of Master's Degree Program IT, Digitalization & Sustainability

Some remarks at the beginning

- If you don't hear me, please contact me now using the Chat.
- This presentation takes about 15 - 20 minutes, after which there are about 10 minutes available for questions.
- Of course, questions can also be asked during the presentation.
- For questions you can use your microphone or the chat.
- If not, everything goes smoothly at the online info event, we ask for your understanding.
- After the information event you will receive the presentation by e-mail.
- We are grateful for your feedback, which should help us to improve our information events.

Philosophy of education

High level of flexibility:

Up to 50% of the courses can be chosen by the students themselves.

Breaking new ground:

We develop study programs that are innovative, future-oriented, interdisciplinary and offer our graduates excellent career prospects.

Computer science is global:

We encourage our students from all degree programs to spend part of their studies abroad. This opens them up to new horizons and perspectives.

About the program
Framework conditions

Master of Science in IT, Digitalization & Sustainability

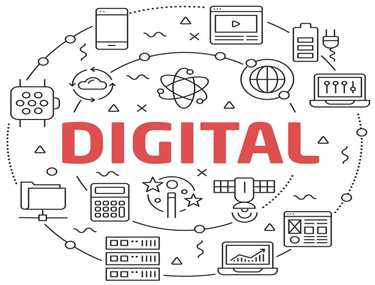
- is based on international cooperation
- leads to two Master's degrees (one from HSLU, one from the international partner university)
- 120 ECTS Credits
- 4 Semesters
- Taught in English
- Mandatory Semester(s) abroad
- Target Group: National and International Students

Field of activity

Graduates will be equipped for the future professional requirements of a digitalized and sustainability-oriented professional world. Possible fields of work in «digitalization» and «sustainability»

- Managing complex sustainable IT projects in an international and intercultural environment
- Leading projects related to sustainable digital transformation and related business models
- Implementation of projects in connection with sustainable business models
- Consulting/project management in the field of international value chains, digitalization and sustainability
- Leading and managing IT companies
- Management positions in international corporations in a wide variety of industries

The basic, original idea behind the MSc IT, Digitalization & Sustainability



disruptive technologies **digital transformation** **sustainable development**

- global issues that continue to confront us with major challenges today and in the future
- the need for international cooperation

Intercultural Competences, Management, Leadership & Project Management

Sustainability

Digitalization, Digital Transformation

Information Technology Computer Science

Globalisation

Sustainability as a cross-sector topic

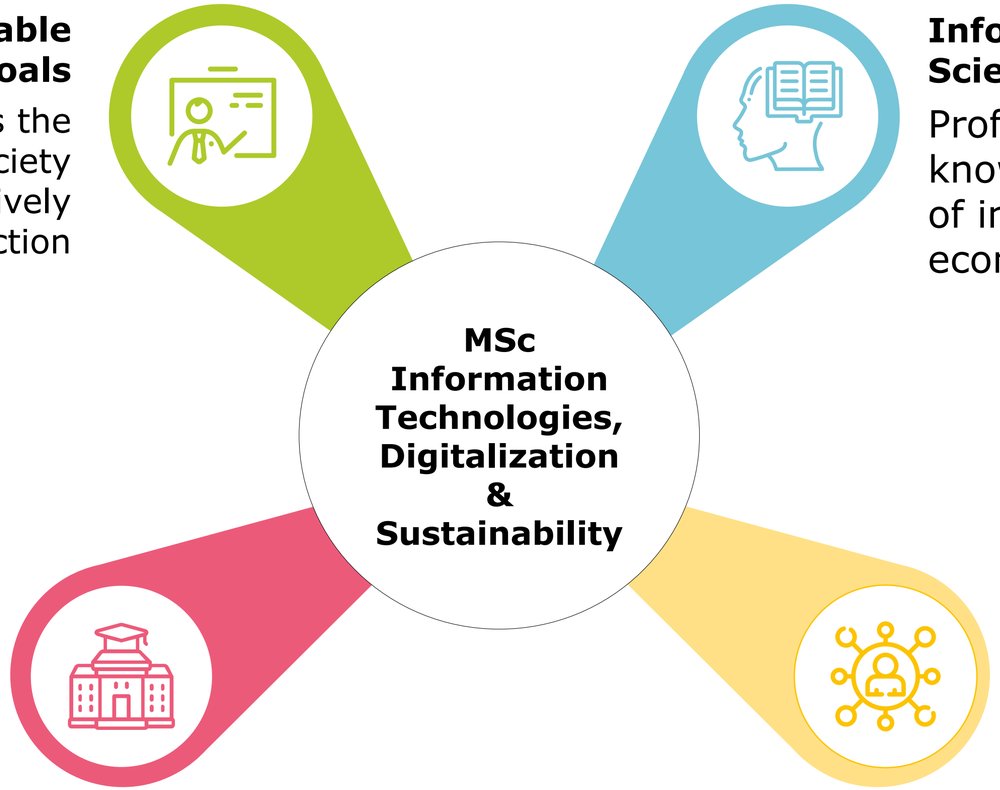
Program Content

Sustainability, Sustainable Development Goals

Sustainability encompasses the three areas of the economy, society and ecology and is not exclusively focused on environmental protection

Information Technology, Computer Science

Profound technical skills and in-depth knowledge of the potential applications of information technologies in the economy, society and ecology



Project Management, Leadership, Intercultural Competences

Project management, leadership skills and intercultural competencies are indispensable in a global and digitalized world

Globalization, Internationality

The challenges in the economy, society and ecology can no longer be solved nationally. International and global cooperation is needed across political and cultural barriers

Overview of the structure and modules of the MSc IT, Digitalization & Sustainability
full time model

Semesters

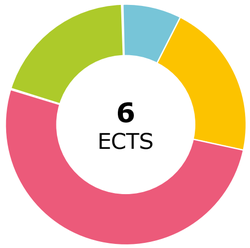
4

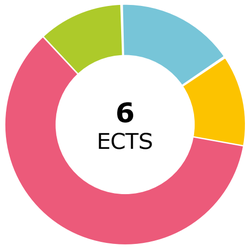
Master's Thesis — **30** ECTS

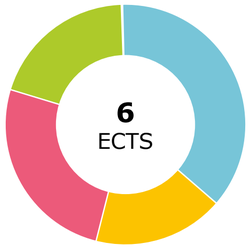
3

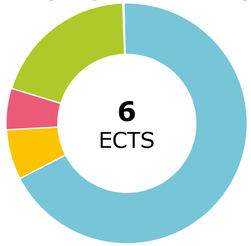
Master's courses abroad at a partner university — **30** ECTS
(e.g. VR/AR, Information Security, Robotics, Big Data, Business Applications, etc.)

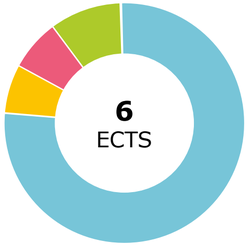
2











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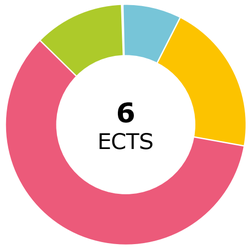
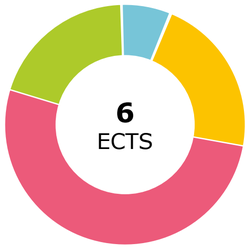
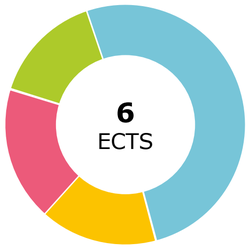
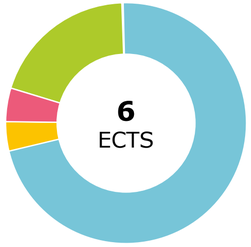
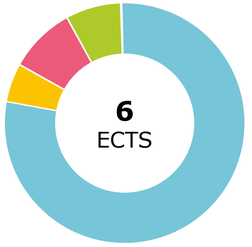










Overview of the structure and modules of the MSc IT, Digitalization & Sustainability

part time model

Semesters

6

Master's Thesis — **30** ECTS

5

Master's courses abroad at a partner university — **30** ECTS

(e.g. VR/AR, Information Security, Robotics, Big Data, Business Applications, etc.)

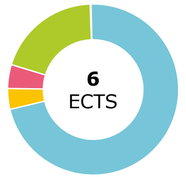
4

Natural Language Processing

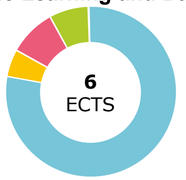
Artificial Intelligence

3

Blockchain



Machine Learning and Data Science



2

Intercultural & International Cooperation

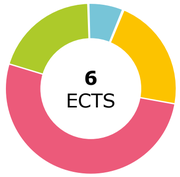
Managing IT Projects

Digitalization

1

Intercultural Competencies

Managing international digitalized companies



Digital Business Models

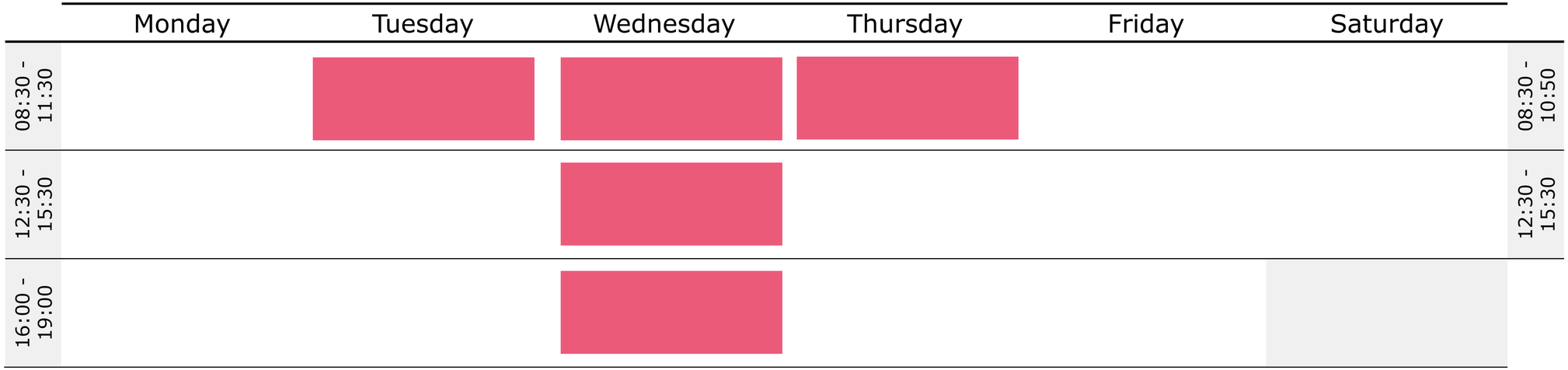
HSLU

Prospective international partner universities for a Dual/Double degree

- ✓ FH Technikum Wien, Austria
- ✓ Østfold University College, Norway
- ✓ *Northeastern Illinois University Chicago*
- ✓ *Dublin City University, Ireland*
- ✓ *Universidade de Aveiro, Portugal*
- *National Central University, Taiwan*
- *Sultan Qaboos University, Oman*
- *Atlantic Technological University, Ireland*
- *James Cook University, Singapore*
- *Universidade Europeia, Portugal*
- *Massey University, New Zealand*

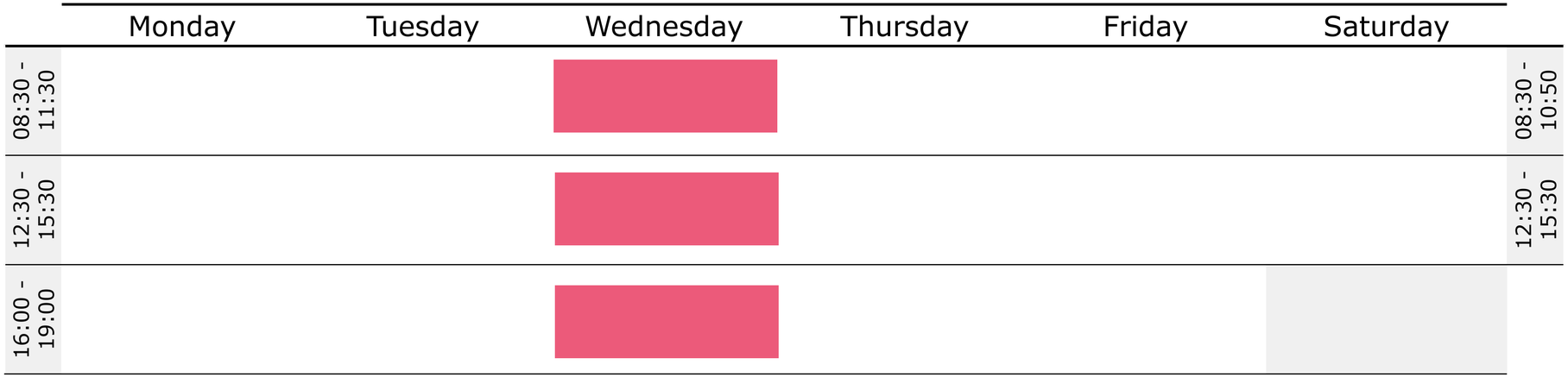
Status as of December 2023

Overview of contact & teaching schedule (full time model)

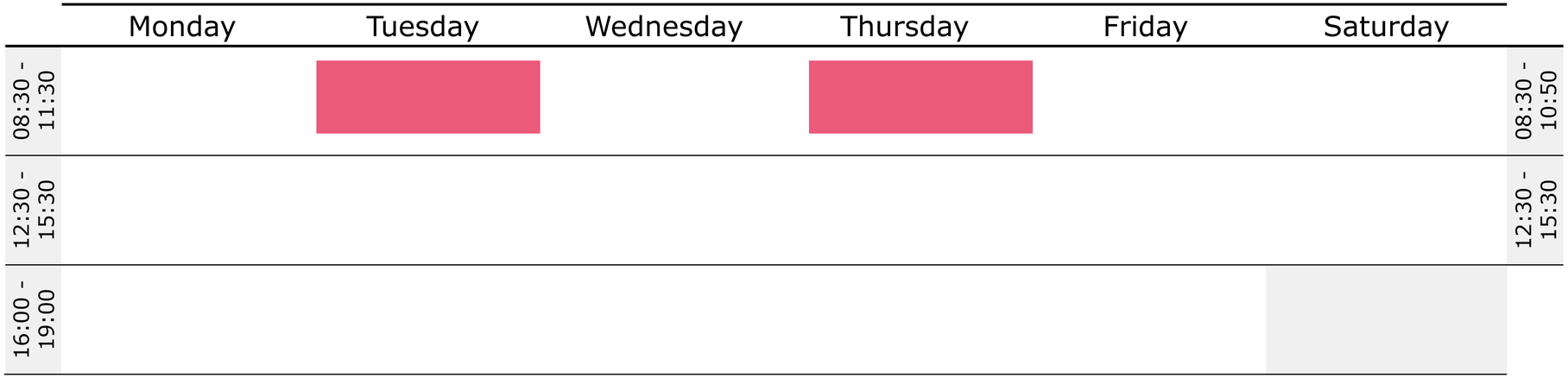


Overview of contact & teaching schedule (part time model)

Semester 1 & 2



Semester 3 & 4



Admission Requirements

Bachelor‘s degree in	Grade (GPA)	Language skills	Programming skills	Mathematics and statistical skills
– BSc Information Technology – BSc Computer Science – BSc International IT Management – BSc Business Information Technology – BSc Engineering – other similar bachelor degree programs are possible («sur dossier»)	– Swiss Average Grade: 5.0 or above – International students: GPA 3.3 or above	– C1 Level (CEFR) in English – No German language skills needed	Either: a minimum of 9 ECTS credit in programming (JAVA; C#; Python) Or: A compulsory preliminary MOOC in programming	Either: a minimum of 9 ECTS credit in linear mathematics, statistics Or: A compulsory preliminary MOOC in mathematics, statistics

Application form and deadlines

Next start of the program

mandatory intoductury week: 08. - 12.09.2025
semester start fall 2025: 15.09.2025

Application form is available online:

https://www.hslu.ch/en/lucerne-university-of-applied-sciences-and-arts/informationen-online-anmeldung-i-ba-ma/?prf=ab&eid=172089

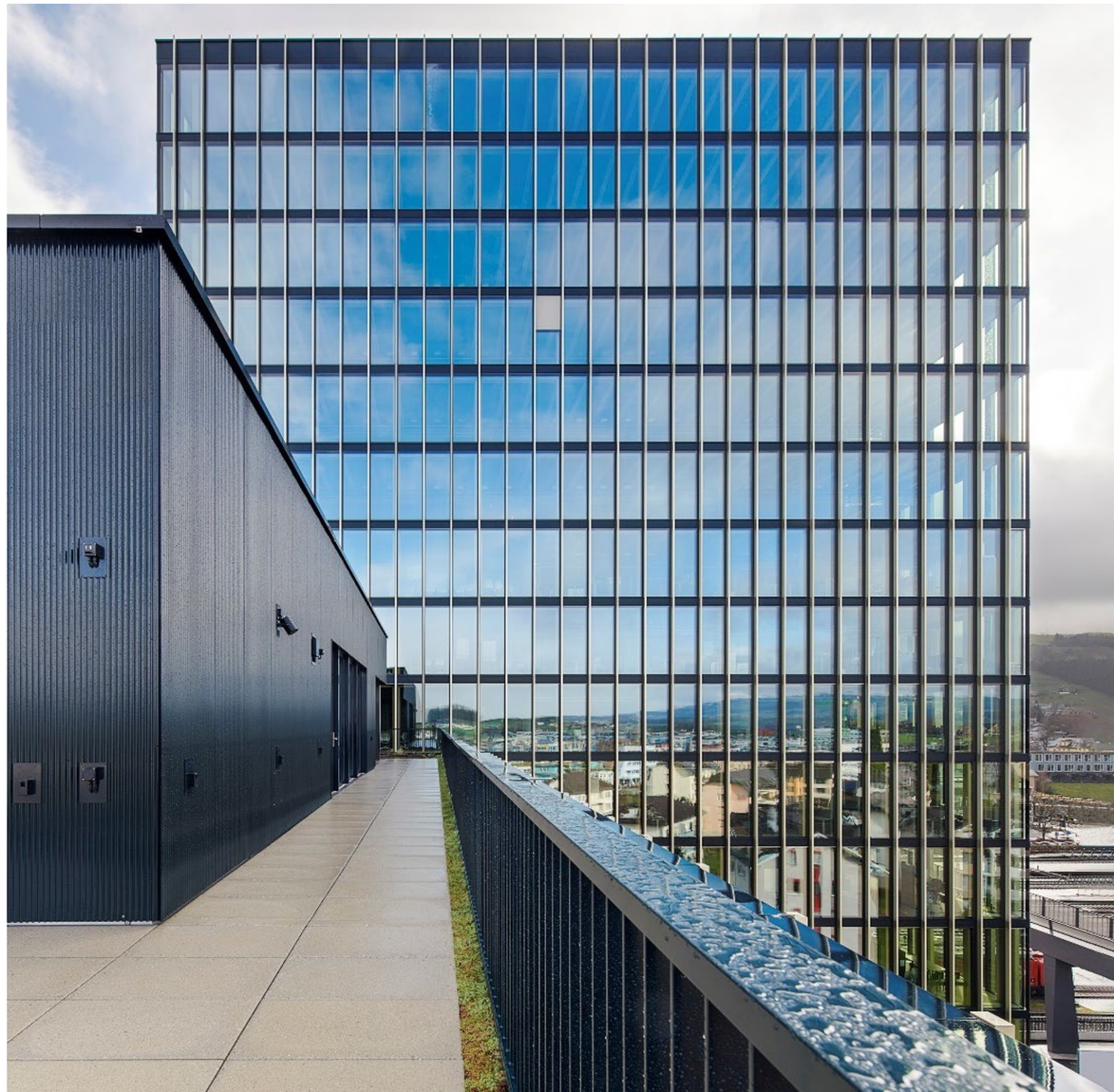
Application Deadline

Applications from Swiss and EU/EFTA students:Applications can be submitted **until the 15th August 2025**. We recommend applying in good time prior to the start of the course.

Applications from Non-EU/EFTA students

they must register by 28 February 2025 at the latest.

by the end of March 2025, interviews will be conducted with the students from Non-EU/EFTA countries and a final decision will be made on their admission to the program.



Questions?

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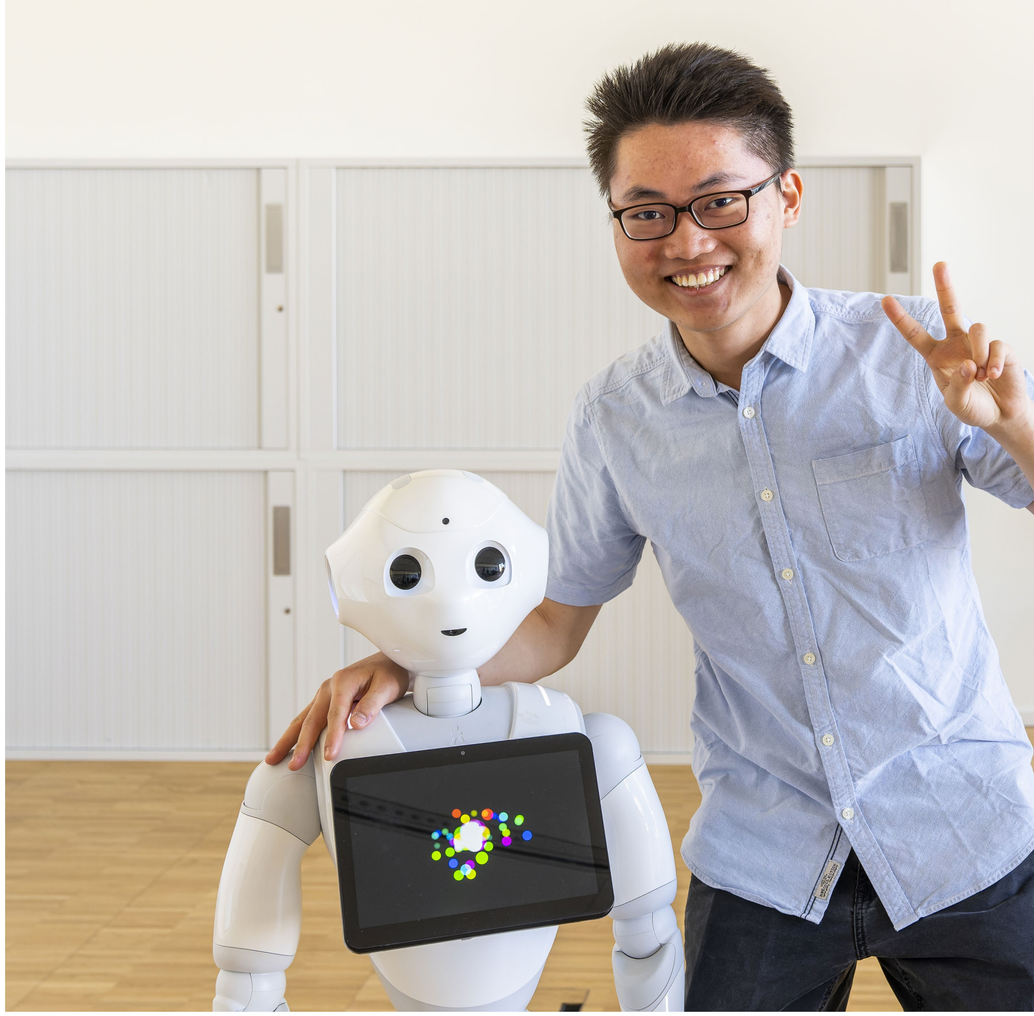

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