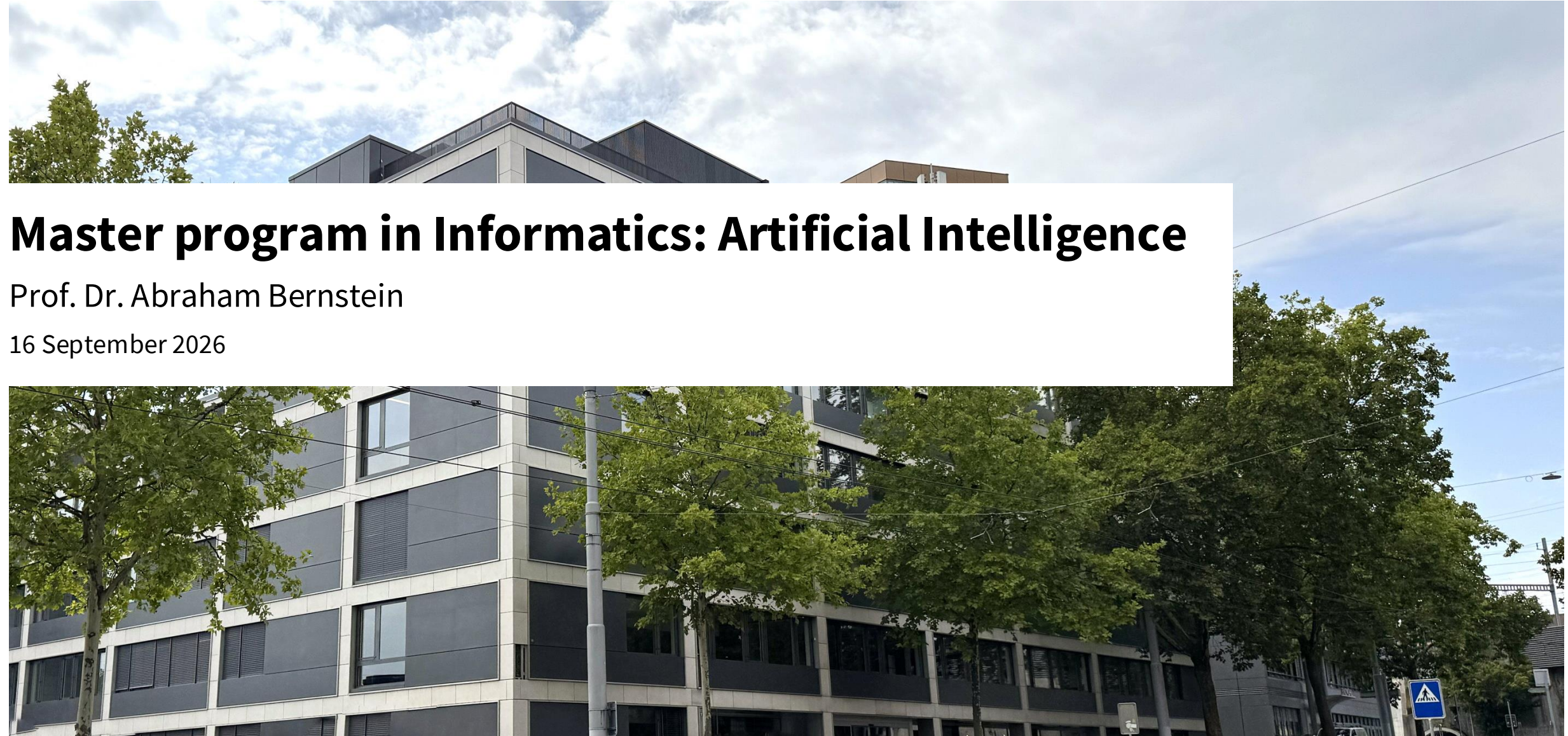




Universität
Zürich^{UZH}

Department of Informatics



Master program in Informatics: Artificial Intelligence

Prof. Dr. Abraham Bernstein

16 September 2026

Contents

- About IfI/Professors
- General Information
- Structure of MSc Programs: Compulsory Module, Master's Project, Core Elective, Thesis
- MSc Artificial Intelligence
- Hints
- Questions/Whom to contact
- Library

IfI: The Department of Informatics

- Founded in 1970 (IfI = Institut für Informatik)
- Part of the Faculty of Business, Economics and Informatics
- Focus on human-centered informatics
- 21 Professors, 130 PhD students and Post-Docs
- 550 Bachelor's students
- 650 Master's students
- Campus Oerlikon



You!



IfI Professors

	Alberto Bacchelli Zurich Empirical Software Engineering Team		Jürgen Bernard Interactive Visual Data Analysis Group		Abraham Bernstein Dynamic and Distributed Information Systems Group		Eva Bittner Human-centered Information Systems Engineering		Michael Böhlen Data- Base Technology Group		Ivan De Oliveira Nunes Security and Privacy of Information, Networks, and Systems		Thomas Fritz Human Aspects of Software Engineering
	Harald Gall Software Evolution and Architecture Lab		Anikó Hannák Social Computing Group		Elaine Huang Zurich People and Computing Lab		Lena A. Jäger Digital Linguistics		Dan Olteanu Data Systems and Theory Group		Renato Pajarola Visualization and Multi- Media Lab		Giorgia Ramponi Autonomous Sequential Learning and Predictive Intelligence Lab
	Jana Rehse Information Systems in Organizations		Theodoros Rekatsinas Large- Scale Systems		Davide Scaramuzza Robotics and Perception Group		Gerhard Schwabe Information Management Research Group		Rico Sennrich Text Technology		Burkhard Stiller Communication Systems Group		Claudio Tessone Blockchain and Distributed Ledger Technologies

General Information Online

Dean's Office: <https://www.oec.uzh.ch/en/studies.html>

➤ Study Regulations, Admission, Enrollment, Changing Programs, Course Booking, Important Dates, Petitions/Appeals, ...

IfI: <https://www.ifi.uzh.ch/en/studies/msc-info.html>

➤ Specific to Informatics: Fact Sheets (legally binding!), Topics/Professors, Tutors, also these slides for later reference

Please read the regulations and fact sheets!

The presentations held at the **Faculty's Master Welcome Day** are available from:

<https://www.oec.uzh.ch/en/studies/events/mwd.html>



Structure of the MSc Programs

All programs comprise...

- a compulsory module
- a Master's Project (group work!)
- modules from core/elective areas
- a Master's Thesis at the end

More on these components on the next slides...

You find these slides at:

www.ifi.uzh.ch > Academic Programs >
Master in Informatics

Five Major MSc study programs				90 ECTS credits
Information Systems IS	Software Systems SOSY	Human-Centered Computing HCC	Artificial Intelligence AI	Data Science DS
Compulsory module 6 ECTS	Compulsory module 6 ECTS	Compulsory module 6 ECTS	Compulsory module 6 ECTS	Compulsory module 6 ECTS
Master's project 15 ECTS				
Core elective area 18 ECTS	Core elective area 18 ECTS	Core elective area 18 ECTS	Core elective area 18 ECTS	Core elective area 18 ECTS
INF elective area 15 ECTS				
Free elective area 6 ECTS				
Master's thesis 30 ECTS	Master's thesis 30 ECTS	Master's thesis 30 ECTS	Master's thesis 30 ECTS	Master's thesis 30 ECTS

Compulsory Module

Advanced Topics in Artificial Intelligence

Time: Wednesdays 8:00 -12:00h

Room: BIN 1.B.01

Grading

- Final Exam: Wednesday, 26.01.2023, 14:00-16:00 BYOD! -> Location to be announced
- Practice Exam (TBA)
- Assignments (25%)
- Active participation to the evaluation event on the 14.12. and 21.12.

Prerequisites

- General: Calculus, Linear Algebra, Probability Theory, Design and Analysis of Algorithms
- You have taken an intro class on AI (roughly, AIMA 4th Ed., chapters 1-18)
- You are familiar with basic Data Mining / Machine Learning techniques

Content

- Knowledge in AI, Large-scale AI, Collective Intelligence, AI & Society

This course

More about
this in a bit

Master's Project

The Master's Project...

- is a **group project** (= at least 2 Ifl students)
- is an **intensive and demanding** project worth 15 ECTS credits
- best time: During semester break
- max. 12 months to complete
- must be supervised by an Ifl professor

➤ **Check the fact sheet!**

Ifl organizes a **Master's Project Market** each semester

➤ Some open projects are presented, and you can find peers

Five Major MSc study programs					90 ECTS credits
Information Systems IS	Software Systems SOSY	Human-Centered Computing HCC	Artificial Intelligence AI	Data Science DS	
Compulsory module 6 ECTS	Compulsory module 6 ECTS	Compulsory module 6 ECTS	Compulsory module 6 ECTS	Compulsory module 6 ECTS	
Master's project 15 ECTS					
Core elective area 18 ECTS	Core elective area 18 ECTS	Core elective area 18 ECTS	Core elective area 18 ECTS	Core elective area 18 ECTS	
INF elective area 15 ECTS					
Free elective area 6 ECTS					
Master's thesis 30 ECTS	Master's thesis 30 ECTS	Master's thesis 30 ECTS	Master's thesis 30 ECTS	Master's thesis 30 ECTS	

Elective Areas

Core elective area

Specific to your Major study program (IS, SOSY, HCC, AI, or DS).

INF elective area

All modules offered by IfI on the Master's level (definition in the Study Regulations, p. 31)

Free elective area

All modules offered on the Master's level (definition in the Study Regulations, p. 31)

Five Major MSc study programs					90 ECTS credits
Information Systems	Software Systems	Human-Centered Computing	Artificial Intelligence	Data Science	
IS	SOSY	HCC	AI	DS	
Compulsory module	Compulsory module	Compulsory module	Compulsory module	Compulsory module	
6 ECTS	6 ECTS	6 ECTS	6 ECTS	6 ECTS	
Master's project					15 ECTS
Core elective area	Core elective area	Core elective area	Core elective area	Core elective area	
18 ECTS	18 ECTS	18 ECTS	18 ECTS	18 ECTS	
INF elective area					15 ECTS
Free elective area					6 ECTS
Master's thesis	Master's thesis	Master's thesis	Master's thesis	Master's thesis	
30 ECTS	30 ECTS	30 ECTS	30 ECTS	30 ECTS	

AI Major – Core Electives and Instructors

Overview only for your convenience.
Only the online course catalogue
contains binding information!

Advanced Machine Learning	Lena Jäger
Advanced Techniques of Machine Translation	Rico Sennrich
AI 4 Good	Jan Dirk Wegner
Computer Graphics	Renato Pajarola
Applied Computer Graphics	Julian Croci
Artificial Intelligence: Technology and Law	Thouvenin/Bernstein
Essentials in Text and Speech Processing	Mathias Müller
Machine Learning for Natural Language Processing 1	Simon Clematide
Mathematics for AI and Data Science	Tülin Kaman
Computer Vision for Automated Driving	Christos Sakaridis
Retrieval-Augmented Generation	Yingqiang Gao
Vision Algorithms for Mobile Robotics	Davide Scaramuzza
Real Analysis I	Marc Paoletta
Reinforcement Learning	Giorgia Ramponi

Stay at home and study abroad

Una Europa Module Exchange in Data Science & AI



Take an AI or Data Science course at another European university.
Gain an international and multidisciplinary perspective.



Up to 6 ECTS in INF elective area.
We take care of the transfer of ECTS.



Free of charge.
Online.



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA



UNIVERSITY OF HELSINKI



University of Helsinki deadline for HS26: 30.September 2026



Engineering of Machine Learning Systems (5 ECTS)

MLOps · ML workflows · deployment & monitoring
Synchronous · live online sessions



Computational Affective Modelling MOOC (2+3 ECTS)

AI models of emotions, frustration & human behaviour
Asynchronous · study flexibly



AI in Society MOOC (2-3 ECTS)

Ethical & social aspects of AI · societal impact
Asynchronous · study flexibly



UNIVERSITY OF HELSINKI



<https://t.uzh.ch/1Ze>

Contact

Natalia Werner
Specialist Teaching and
Learning Una Europa
dsaimodules@le.uzh.ch



Master's Thesis

The Master's Thesis...

- is a **full-time endeavor** worth 30 ECTS credits (i.e., no significant side jobs or other study activities possible)
- max. six months to complete
- can only be started once the Master's Project has been successfully completed
- must be supervised by an IfI professor

- **Check the fact sheet!**
- Find topics on the IfI website (check the individual group pages) or contact the groups directly.

Five Major MSc study programs					90 ECTS credits
Information Systems IS	Software Systems SOSY	Human-Centered Computing HCC	Artificial Intelligence AI	Data Science DS	
Compulsory module 6 ECTS	Compulsory module 6 ECTS	Compulsory module 6 ECTS	Compulsory module 6 ECTS	Compulsory module 6 ECTS	
Master's project 15 ECTS					
Core elective area 18 ECTS	Core elective area 18 ECTS	Core elective area 18 ECTS	Core elective area 18 ECTS	Core elective area 18 ECTS	
INF elective area 15 ECTS					
Free elective area 6 ECTS					
Master's thesis 30 ECTS	Master's thesis 30 ECTS	Master's thesis 30 ECTS	Master's thesis 30 ECTS	Master's thesis 30 ECTS	

Further Modules

Seminar

- one IfI seminar is mandatory
- recommended from 2nd semester
- check the Course Catalogue early and register for the seminar within the seminar's application deadline

➤ **Note: this deadline is shorter than the regular module booking deadline!**

Independent Study

- Optional module

➤ **Check the fact sheet!**

Please consult the Framework Ordinance and the Program Regulations; they are the only complete and legally-binding documents

External Modules

- ETH: <https://www.oec.uzh.ch/en/studies/credits/external-eth.html>
- Mobility within Switzerland: <https://www.uzh.ch/cmsssl/en/studies/application/chmobilityout.html>
- International exchange: <https://www.int.uzh.ch/en/out.html>
- Partner universities: <https://www.oec.uzh.ch/en/international/engagement.html>

AI Research Activities at UZH ...

Universität Zürich

ZORA (Zurich Open Repository and Archive)

Home

oa@ub.uzh.ch

Deutsch

Login

Search ZORA

About ZORA

Browse

Statistics

Help

Search

artificial intelligence

→ Clear all

→ Advanced Search

→ Help

Showing 1 - 10 out of 5348

Reset Filter

YEAR

☐ 2025

86

☐ 2024

894

☐ 2023

769

☐ 2022

613

☐ 2021

512

+ More

NAME

Filter Name

☐ Bernstein Abraham (0000-0002-0128-4602)

80

☐ Scaramuzza Davide

68

☐ Rinaldi Fabio (0000-0001-5718-5462)

60

☐ Schwabe Gerhard (0000-0002-0453-9762)

52

☐ Weibel Robert

48

+ More

Relevance

Export

Showing 1 - 10 out of 5348 for artificial intellig...

Show

10

Artificial Intelligence, Gesundheitsversorgung und Krankenversicherung.

Gächter, Thomas ; Poledna, Thomas (2018).

Jusletter, (29.01.2018):online.

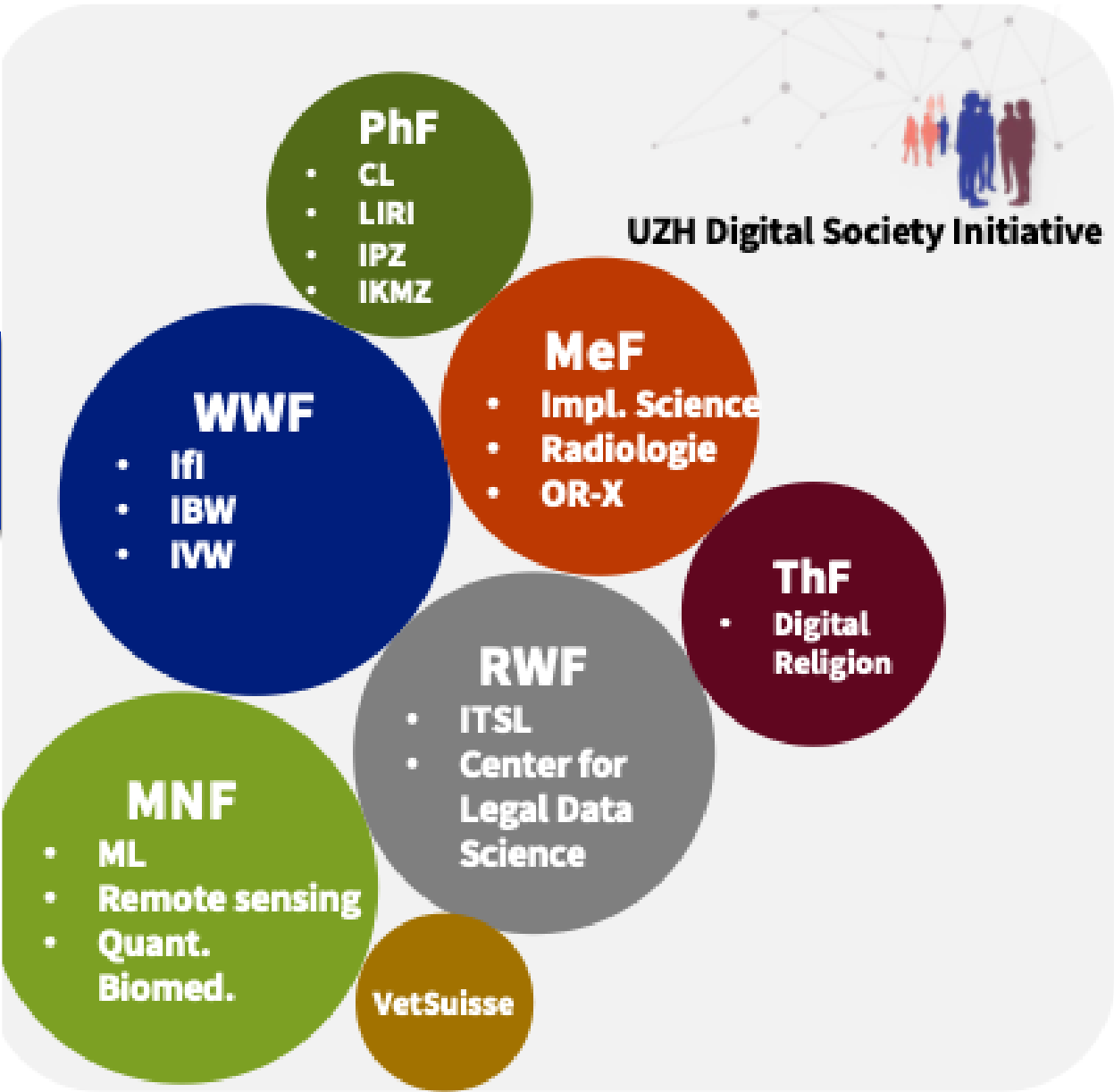
[...] Tomas Poledna / Thomas Gächter **Artificial Intelligence**, Gesundheitsversorgung und Krankenversicherung Rechtliche Grossbaustellen Die sichtbare Bedeutung von **Artificial Intelligence** (AI) nimmt laufend zu. Sie wird in vielen Lebensbereichen zu grundlegenden Umwälzungen führen, so auch in der Gesundheitsversorgung und in der Krankenversicherung. [...]

Artificial intelligence, affordances and fundamental rights.

Graber, Christoph B (2018).

i-call Working Paper Series 2018/02, University of Zurich.

[...] GRABER 3



Minor

Available Minor programs are listed in the Course Catalogue:

<https://studentservices.uzh.ch/uzh/anonym/vvz/index.html>

➤ Master of Science UZH in Informatics (RVO22) > Minor 30

Note: Modules in the *Minor area Informatics (INF)* are offered only in the Fall semester. There are no modules in the *Minor area Informatics* in the Spring semester. Take this into account when planning your next few semesters.

You can change your Minor under certain conditions:

<https://www.oec.uzh.ch/en/studies/enrollment/change.html>

Study programs (22)

> Major 90

▼ Minor 30 - Faculty of Business, Economics and Informatics

Artificial Intelligence

Banking and Finance

Business Administration

Data Science

Economics

Finance

Informatics

Information Systems

▼ Minor 30 - Other Faculties

Computational Linguistics and Language Technology

Bioinformatics

Biology

Chemistry

Geography

Hints (1/3)

- **Focus on the compulsory modules** in your Major and Minor programs
- **Make a study plan**
- Check course schedule of previous years for planning. Courses often stay in the same slot. Suggested order:



- **Read the fact sheets** well before starting the respective module or thesis
- All legally binding information regarding modules, incl. exam dates, are in the UZH Course Catalogue. Most modules additionally have a website or OLAT course, but **the Course Catalogue is binding**

Hints (2/3)

- **Check the study websites** of the Faculty and the Department:
 - <https://www.oec.uzh.ch/en/studies.html>
 - <https://www.ifi.uzh.ch/en/studies/msc-info.html>
- Note that **booking/cancellation deadlines** may vary between faculties.
- Working at IfI: Some modules/courses seek **Tutors**.
- Check out <https://www.ifi.uzh.ch/en/studies/msc-info.html> and the individual group pages.
- Mentoring, social events, representatives: Informatics **student association ICU**: <https://icuzh.ch>

Hints (3/3)

- **Consider the policies on plagiarism and scientific integrity.** You find the fact sheet on plagiarism on this website:
 - <https://www.ifi.uzh.ch/en/studies/msc-info.html>
 - The Swiss Academies of Arts and Sciences issued a Code of conduct for scientific integrity:
<https://swiss-academies.ch/publications/kodex-fur-wissenschaftliche-integritat>
- UZH provides a number of **advice and support services** for topics such as Gender Equality and Diversity, Disability, or Psychological Counseling:
 - <https://www.students.uzh.ch/en/advice.html>
- **Practise passive and active English without tools** (in exams, no translation tools are permitted)
 - UZH offers English courses: <https://www.sprachenzentrum.uzh.ch/en/Sprachkurse/Englisch.html>

Questions/Whom to Contact

If you have questions, please follow these steps:

1. Read the Study Regulations: <https://www.oec.uzh.ch/en/studies/regulations.html>
2. Read the Ifl's study information and fact sheets: <https://www.ifi.uzh.ch/en/studies/msc-info.html>
3. Check information in the Course Catalogue: <https://studentservices.uzh.ch/uzh/anonym/vvz/index.html>
4. Send e-mail to the respective person:

For questions about

- Master's Project
- Independent Studies
- Master's Thesis
- Informatics studies in general

Contact the Ifl's Study Coordinator,
Daniela Bärtschi: studies@ifi.uzh.ch

For questions specific to a course: Contact the instructor.

For everything else, contact the Dean's Office:
<https://www.oec.uzh.ch/en/staff/team.html> (Study Affairs)

And of course you can ask your fellow students, for example by joining the student association ICU: <https://icuzh.ch>

Did you know?

The Informatics Library is part of the UB Sciences on the Irchel campus!

Books can be delivered to Oerlikon free of charge:

<https://t.uzh.ch/1mr>

or <https://www.ub.uzh.ch/en>





OEC Mentoring Program 2026/27

Profit from our alumni's career know-how and job experience.

Apply by 11 October 2026!

For advanced students at Bachelor's, Master's and Doctoral level.

