# Master program in Informatics: People-Oriented Computing

Prof. Elaine M. Huang

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- Welcome event for new Master's students with major Informatics

# 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

– 19 Professors, 130 PhD students and Post-Docs

– 500 Bachelor's students

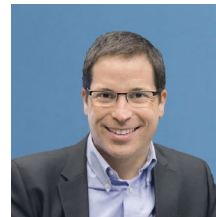– 520 Master's students

– Campus Oerlikon

**You!**

# IfI Professors

**Alberto Bacchelli**

Zurich
Empirical
Software Engineering
Team

**Jürgen Bernard**

Interactive
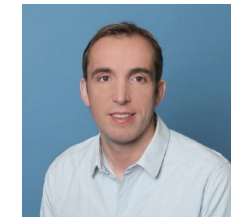Visual
Data
Analysis Group

**Abraham Bernstein**

Dynamic and
Distributed
Information
Systems Group

**Michael Böhlen**

Data-
Base
Technology
Group

**Thomas Fritz**

Human
Aspects of
Software
Engineering

**Harald Gall**

Software
Evolution and
Architecture
Lab

**Manuel Günther**

Artificial
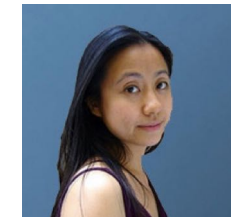Intelligence and
Machine
Learning Group

**Anikó Hannák**

Social
Computing
Group

**Lorenz Hilty**

Informatics and
Sustainability
Research Group
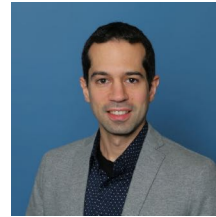
**Elaine Huang**

Zurich
People
and
Computing Lab

**Dan Olteanu**

Data
Systems and
Theory Group

**Renato Pajarola**

Visualization and
Multi-
Media
Lab

**Davide Scaramuzza**

Robotics and
Perception
Group

**Ingo Scholtes**
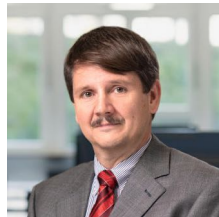
Data
Analytics
Group

**Gerhard Schwabe**
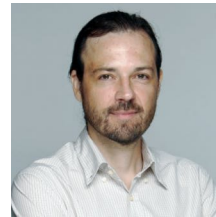
Information
Management
Research
Group

**Sven Seuken**

Computation and
Economics Research
Group

**Burkhard Stiller**

Communication
Systems
Group

**Claudio Tessone**

Blockchain and
Distributed
Ledger
Technologies

**Martin Volk**

Computational
Linguistics

# 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/TAs, 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…

| Five Major MSc study programs | | | | 90 ECTS credits |
|---|---|---|---|---|
| Information Systems IS | Software Systems SOSY | People-Oriented Computing POC | 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 | | | | |
| WWF 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

The compulsory module is specific to your study program.

Compulsory course: Fundamentals of People-Oriented Computing

– Aimed at exposing 1st year MSc students to various areas of study within POC

– Mainly self-study module based on reading and analyzing scientific literature

– Gives students the opportunity to gain familiarity with a research group or professor early in the MSc studies

– More details in the followup presentation ...

# Master's Project

The Master's Project…

– is a **group project** (= min. 2 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 IfI professor

→ **Check the fact sheet!**

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

→ Some open projects are presented and you can find peers

# Elective Areas

**Core elective area**

Specific to your Major study program
(IS, SOSY, POC, AI, or DS; see next slide).

**INF elective area**

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

**WWF elective area**

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

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| Compulsory module 6 ECTS | Compulsory module 6 ECTS | Compulsory module 6 ECTS | Compulsory module 6 ECTS | Compulsory module 6 ECTS |
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| INF elective area 15 ECTS | | | | |
| WWF 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 |

# Core Elective Area: People-Oriented Computing

| Five Major MSc study programs | | | | 90 ECTS credits |
|---|---|---|---|---|
| Information Systems | Software Systems | People-Oriented Computing | Artificial Intelligence | Data Science |
| IS | SOSY | POC | AI | 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 | | | | |
| WWF 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 |

**In the People-Oriented Computing area, the compulsory module and core elective modules…**

– Offer a broad and diverse selection of topics relevant to the relationship between humans and computing

– Touch upon many fields within Informatics, including Graphics, Human-Computer Interaction, Software Engineering, etc.

– Address the impact that Informatics has on individuals, organizations, and society

Example courses: Digitalization and Sustainable Development, Interactive Visual Data Analysis, Digital Technologies in Medicine, Zukunft der Arbeit mit AI, Computer-Supported Cooperative Work

Other options: Independent studies or Teaching Assistantships within POC

# Master's Thesis

The Master's Thesis…

– must be written in your **Major area**

– is a **full-time endeavor** worth 30 ECTS credits
(i.e., no significant side jobs or other study activities possible)

– max. 6 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 | Software Systems | People-Oriented Computing | Artificial Intelligence | Data Science |
| IS | SOSY | POC | AI | DS |
| Compulsory module 6 ECTS | Compulsory module 6 ECTS | Compulsory module 6 ECTS | Compulsory module 6 ECTS | Compulsory module 6 ECTS |
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| INF elective area 15 ECTS | | | | |
| WWF elective area | | | | |
| 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 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!*

**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

**Independent Study**

– optional module

→ **Check the fact sheet!**

# People-Oriented Computing

**Questions about the People-Oriented Computing major?**

– …



It is possible to change the Major under certain conditions:
https://www.oec.uzh.ch/en/studies/general/enrollment/change.html

# 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.*
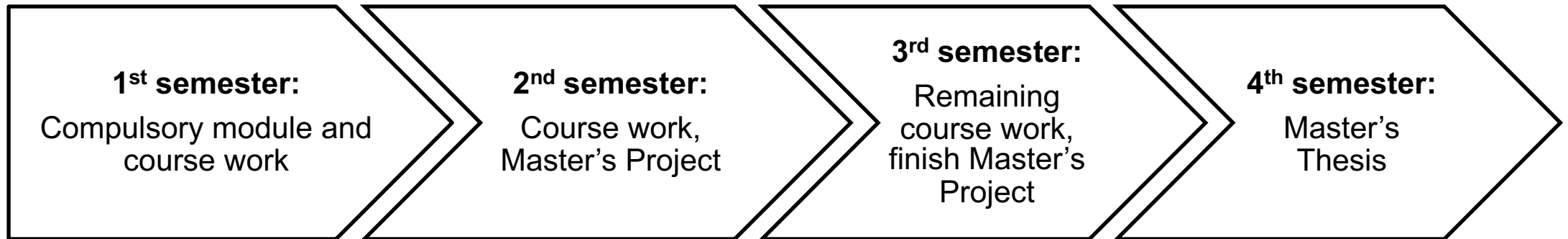
You can change your Minor under certain conditions:

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

9/28/23

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**‹ UZH** UZH Course Catalogue

**Home** / **Degree programs** / Degree program

Master of Science UZH in Informatics (RVO22)

Faculty:  Faculty of Business, Economics and Informatics

Study programs (18)

> Major 90

⌄ Minor 30 - Faculty of Business, Economics and Informatics

> Informatics

> Data Science

> Information Systems

> Economics

> Business Administration

> Banking and Finance

⌄ Minor 30 - Other Faculties

> Bioinformatics

> Biology

> Chemistry

> Computational Linguistics and Language Technology

> Geography

> Mathematics

> Physics

– **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:**

| 1st semester: Compulsory module and course work | 2nd semester: Course work, Master's Project | 3rd semester: Remaining course work, finish Master's Project | 4th semester: Master's Thesis |
|---|---|---|---|

– **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**.

- **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 or Teaching Assistants**. 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

- **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://akademien-schweiz.ch/en/themen/scientific-culture/scientific-integrity-1/

- 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 IfI'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 IfI'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:

Simply select "UB Psychology" as pick-up location in swisscovery.

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

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