

Information about the Master Curriculum in Computer Science

The University of Innsbruck was founded in 1669 and is one of Austria's oldest universities. Today, with over 28.000 students and 5.000 staff, it is western Austria's largest institution of higher education and research. **For further information visit: www.uibk.ac.at.**

Institut für Informatik

25



Professors

136



Employees

1337



Students

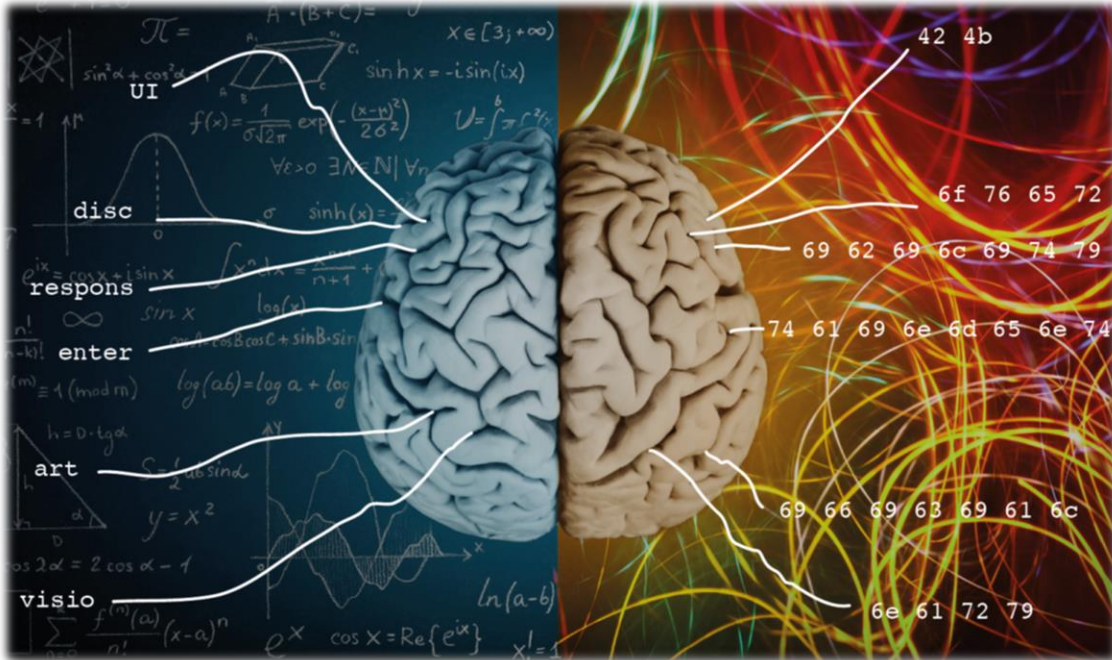
2.81 Mio.



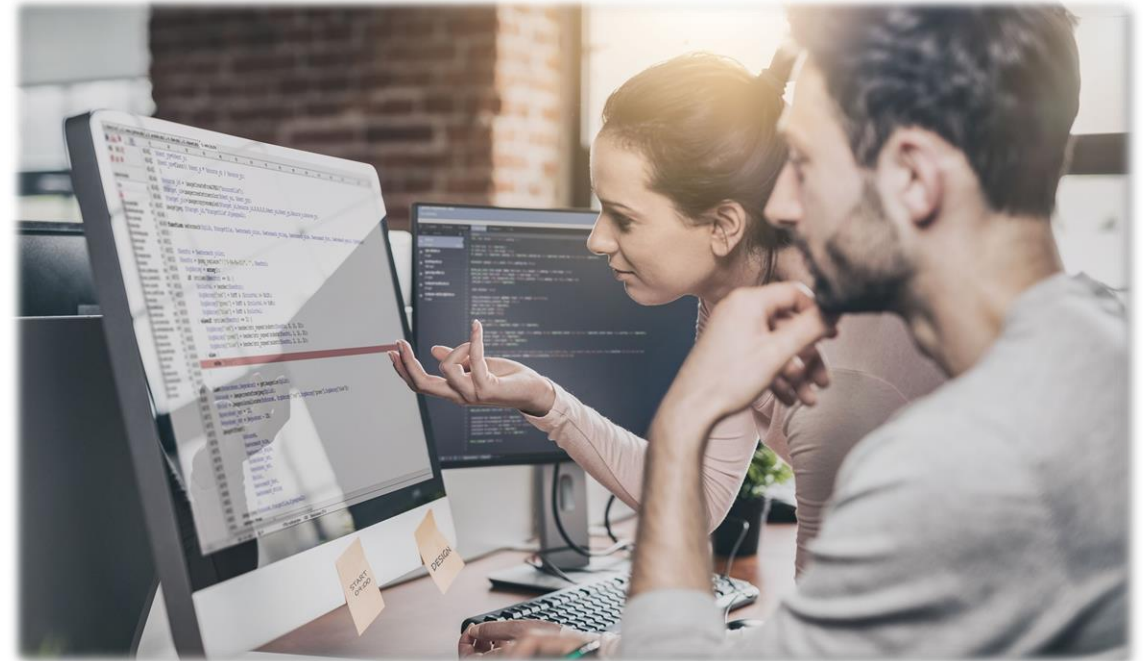
Third-party
funding/year

Options for Master-level Studies in Innsbruck

A Master's Program in Computer Science



A Master's Program in Software Engineering



Positioning of the Two Programs

Master Computer Science

- A modern curriculum covering a variety of specializations in computer science, with a focus on individual choice
- Taking into account feedback from students, a growing number of lecturers, and industry

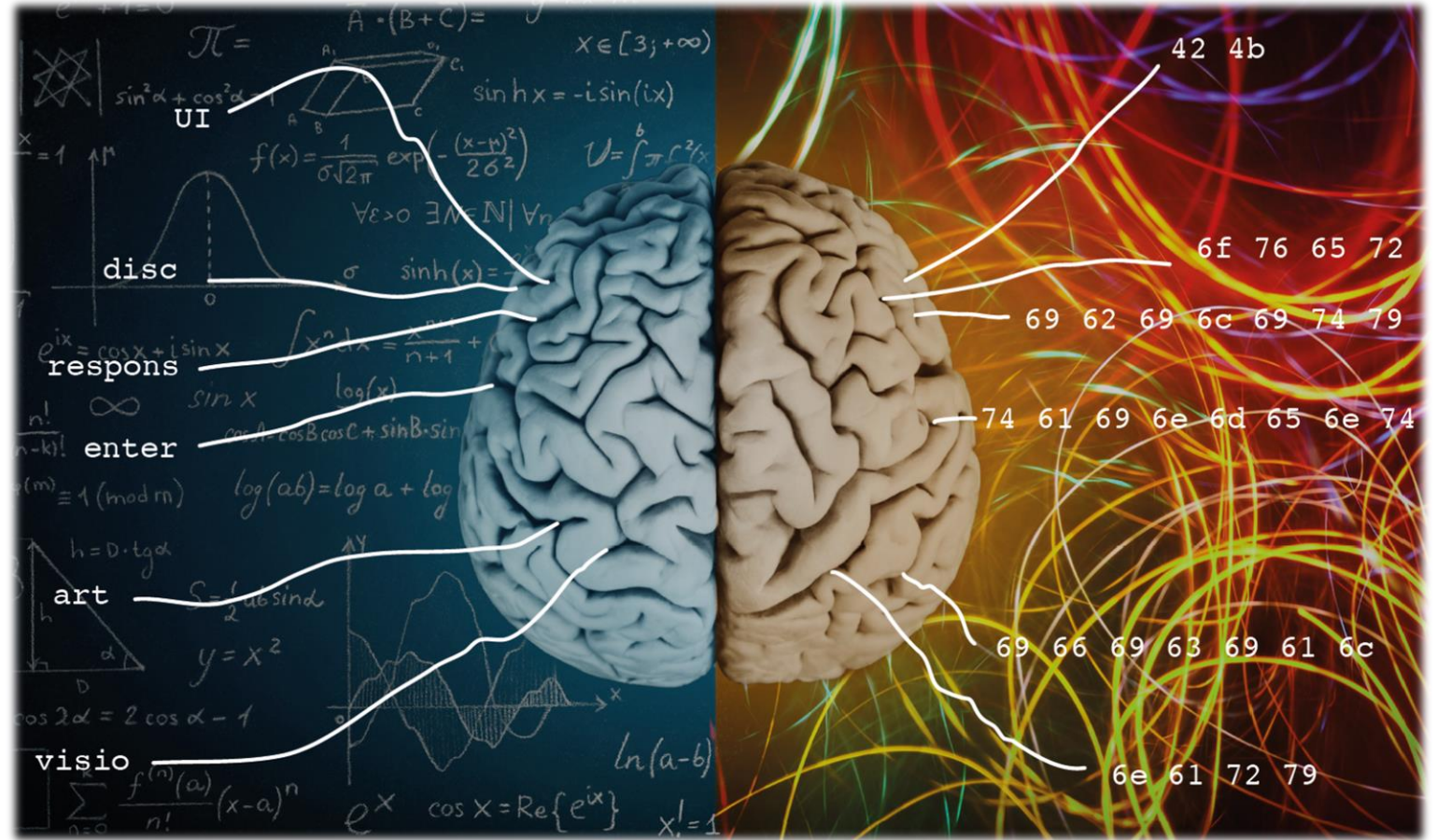
- ✓ research-oriented
- ✓ lots of choice

Master Software Engineering

- Attract a broad target group of young professionals seeking to improve their software engineering skills
- Offers a curated set of modules serving the needs of digital transformation

- ✓ broad appeal
- ✓ streamlined study program

The Master Program Computer Science





- Johannes, 25
- Besides preparing me for a career in
- research, the specialization logic & learning
- taught me how to tackle hard problems using
- logic and sophisticated algorithms

Johannes N. was awarded the Honours Award from the Federal Minister for Education, Science and Research for his excellent studies. This prize has been awarded every year since 1990 on the proposal of the universities

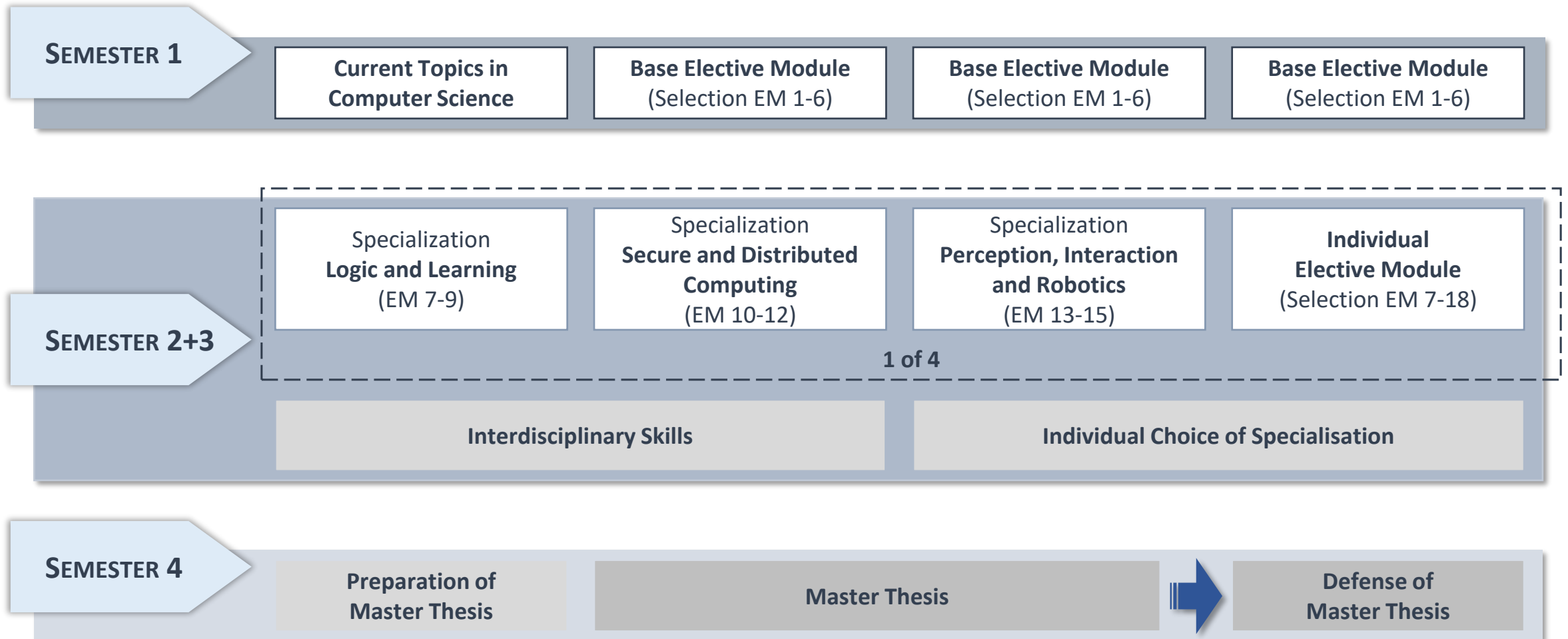




Danielle, 25

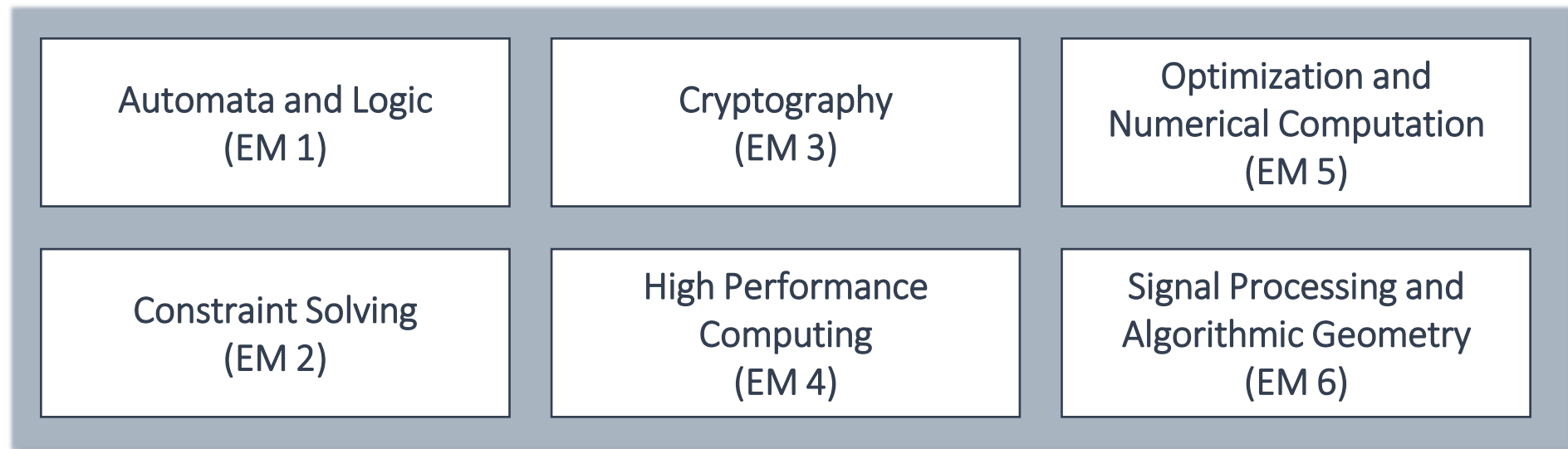
The small classes offered great opportunities
 to get to know the professors and work with
 them on projects outside of the course work
 as well! And the mountains offer a great
 backdrop for studying.

Master Program in Computer Science



Base Elective Modules (EM 1-6)

- Three base elective modules should be selected in the first or second semester, from a total of 6 options
- These modules provide an advanced foundation for each topic, and serve as preparation for further specialization
- The following options are available:



Specialization: Logic and Learning

- Understand the Limitations of Computation
- Reason Inductively and Deductively
- Verify the Correctness of Hardware, Software and Networks

Suggested Base Elective Modules:

Automata and Logic

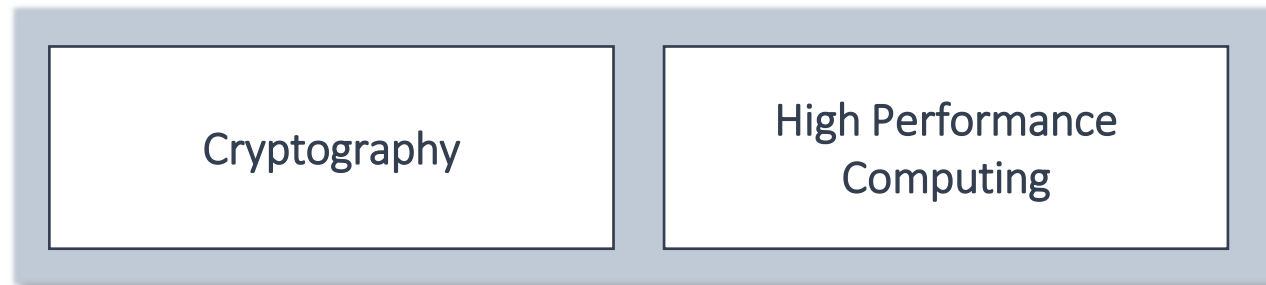
Constraint Solving



Specialization: Secure and Distributed Computing

- Push the Limits of Computer Architectures
- Anticipate Malicious Behavior
- Reach Massive Scale
- Design for Scientific Computing, Cloud, Edge, and Decentralized Governance

Suggested Base Elective Modules:



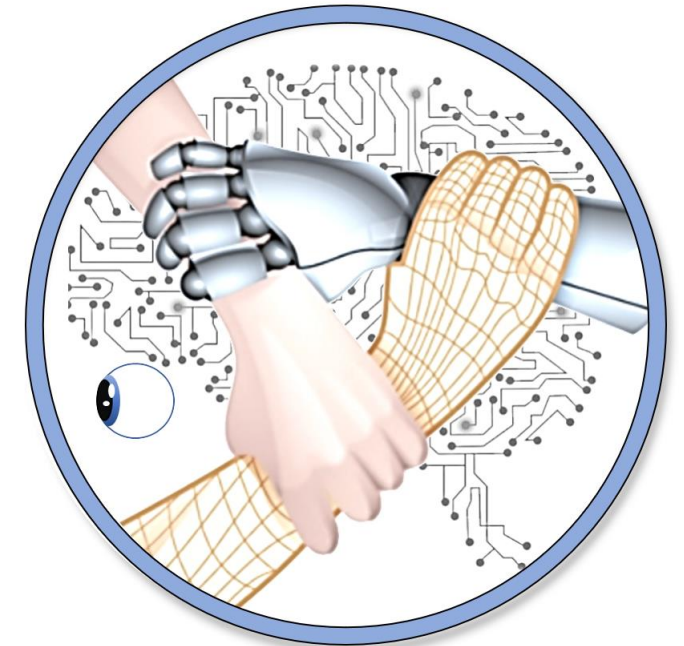
Specialization: Perception, Interaction and Robotics

- Push the Limits of Interactive Systems in Real and Simulated Worlds
- Pursue Human Levels of Perception by Developing Novel Deep Learning Methods
- Advance Robot Intelligence Using Machine Learning
- Reach the Next Level in Virtual, Mixed, and Augmented Reality Systems

Suggested Base Elective Modules:

Optimization and
Numerical Computation

Signal Processing
and Algorithmic Geometry



Next Steps

1

Admission to Program

Admission period for the winter semester 2024/25: **July 8 to October 31**

Detailed information available online at

<https://www.uibk.ac.at/studium/organisation/termine-und-fristen.html.en>

2

Registration to Courses

Registration period: **September 1 to September 21**

Registration via <https://lfuonline.uibk.ac.at/>

Contacts



StV Informatik

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Contact Person Master Computer Science

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Consultation hour: Wednesday, 11:30 to 13:00

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Thank you for your attention



Questions?

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www.uibk.ac.at