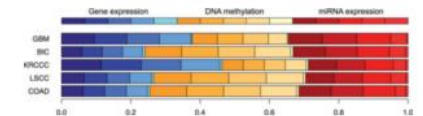
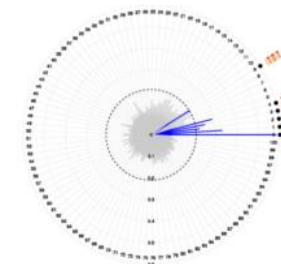
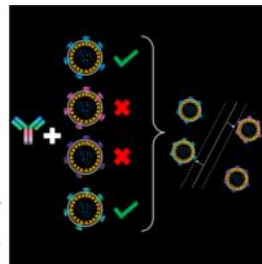
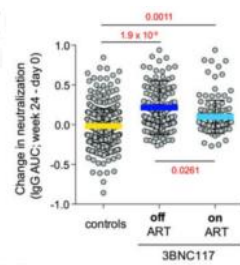
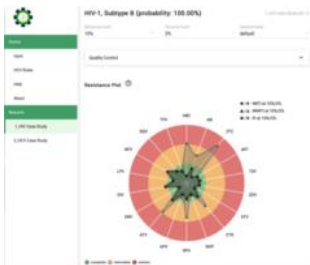




Welcome to all new students of the Master's degree program in Medical Informatics





Welcome to Tübingen!



Dktue / CC BY-SA (<https://creativecommons.org/licenses/by-sa/4.0>)

Department of Computer Science – Campus “Sand”



Visit the **Department of Computer Science** (Fachbereich Informatik) [website](#) for extensive information about our

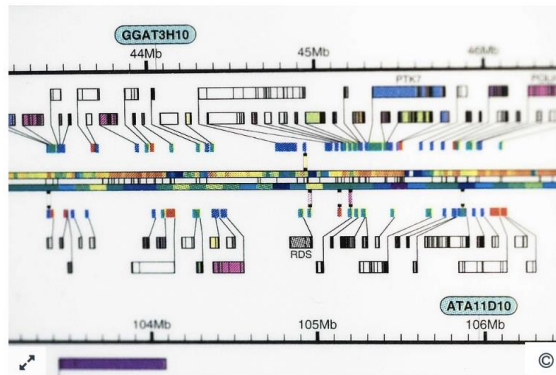
- curricula
- teaching staff
- research groups
- and so much more...

Mathematisch-Naturwissenschaftliche Fakultät

Fachbereich Informatik

[FACHBEREICH ▾](#)[AKTUELLES](#)[STUDIUM ▾](#)[FORSCHUNG](#)[ARBEITSGRUPPEN](#)[STANDORTE](#)[Geschichtliches](#)[Leitung & Gremien](#)[Personen](#)[Techn. Unterstützung](#)[Bibliothek](#)[Anfahrt](#)

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Fachbereichsleitung

Prof. Dr. Andreas Geiger

Fachbereichssprecher

[Kontakt →](#)[Zulassung & Studium →](#)

Aktuelles

Vortragsankündigungen auf
[talks.tue.ai](#) →

Willkommen am Fachbereich Informatik!



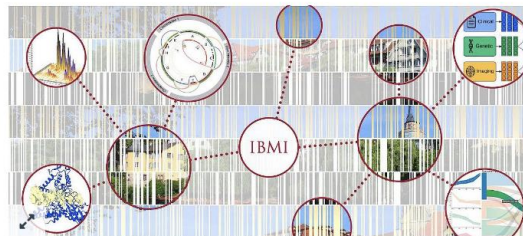
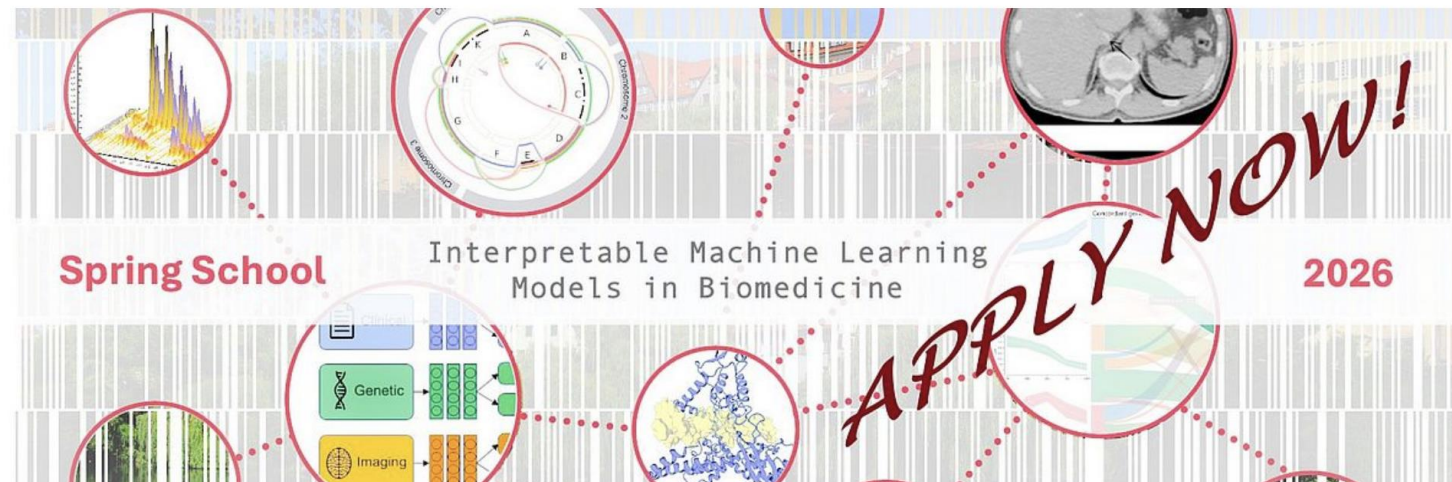
Computer Science Student Council (Fachschaft Informatik):
<https://www.fsi.uni-tuebingen.de/en/>

- your student representation
- provides helpful information & support
- offers **mailing lists** to distribute information and reach students directly
 - subscribe if you want to join (highly recommended!):
<https://www.fsi.uni-tuebingen.de/en/maillinglisten/>
 - mailing list “*info-studium*” spreads relevant information, e.g. from professors or the examination board



Our interfaculty **Institute for Bioinformatics and Medical Informatics** ([IBMI](#))

- interdisciplinary research & courses
- events, incl. international expert talks: [IBMI Colloquium](#)
- **programming support for students** with focus on Java and Python:
Contact: Dr. Philipp Thiel (philipp.thiel@ibmi.uni-tuebingen.de)



With the establishment of the **Institute for Bioinformatics and Medical Informatics (IBMI)** the University of Tübingen brings together expertise in informatics, medicine, and the life sciences in a unique institute bridging the existing faculties of science and medicine.

Over the last decades, the use of computer science methods has fundamentally changed research in the life

sciences and with the ongoing digital transformation and a pervasive application of artificial intelligence, the entire field is facing new and pivotal challenges. Pooling the expertise in an interdisciplinary institute is thus essential for effective research as well as the comprehensive education of qualified scientists in the digitized life sciences.

News

01.12.2023

The Frankenstein molecule

Resurrection of an ancient antibiotic to create antibiotics of the future

[Read more →](#)



Our international Master's degree program in Medical Informatics

- General overview: see [here](#)
- Current [Exam Regulations](#) (Prüfungsordnung): “**PO 2021**”
- Total **credit points**: 120 ECTS
- Expected **duration**: 4 semesters
(max. 7 semesters)
- **Main lectures** in medical informatics, computer science, medical technology
- 3 student **profiles** available (according to your prequalification, e.g. Bachelor's degree)
 - A: medical informatics or equivalent
 - B: medical technology, medicine, or a related field
→ [Preparatory Course in Programming for Medical/Life Scientists](#)
 - C: computer science, or a comparable field



Recommended course plan (see [Study Plans](#)):

→ Course Plan Recommendation M.Sc. Medical Informatics (PDF)



[Course Plan Recommendation M.Sc. Medical Informatics \(PDF\)](#)

[Studienplan B.Sc. Medizininformatik \(PDF\)](#)

Master's thesis

- Duration: 6 months
- Topic to be accepted and supervised by 2 professors from the Dept. of Computer Science (or 1 from Computer Science + 1 from the Faculty of Medicine)
- Thesis 27 ECTS + Presentation 3 ECTS



Profiles: Profile A

Module Overview Profile A		
Module / Study Area:		ECTS
MEDZ-MEDINFO	Advanced Medical Informatics	9
MEDZ-BIOINFO	Advanced Bioinformatics	9
MEDZ-BIOMED	Biomedical Informatics	24
INFO-INFO	Computer Science	18
MEDZ-MEDTECH	Medicine–Medical Technology	18
MEDZ-RES	Research Project	9
MEDZ-SEM	Medical Informatics Seminar	3
MASTER	Master's Thesis and Presentation	30
Total ECTS:		120



Variant A (1st semester in SS 26)

Course Plan Example			
Profile A			
Semester			
1	2	3	4
Advanced Medical Informatics (9 ECTS)	Applicable pre-selection: (6 ECTS) • Structure-Based Drug Design • Cheminformatics	Applicable pre-selection: (3 ECTS) • Machine Learning to Fight Infections • Machine Learning in Biomedicine	Master Thesis (27 ECTS)
	Bioimaging (3 ECTS)	Computational Proteomics and Metabolomics (6 ECTS)	
Medical Data Science (6 ECTS)	Nanoanalytics (3 ECTS)	Applicable pre-selection: (2 x 6 ECTS) • Machine Learning for Single-Cell Dynamics • Introduction to Cryptography • Tabular Database Systems • C++ Programming • Public Cloud Computing or any other INFO-INFO course	
Applicable pre-selection: (6 ECTS) • Machine Learning for Single-Cell Dynamics • Introduction to Cryptography • Tabular Database Systems • C++ Programming or any other INFO-INFO course	Sequence Bioinformatics (9 ECTS)		
Biorobotics (6 ECTS)	Research Project in Medical Informatics (or any 9 ECTS course eligible for MEDZ-BIOINFO or MEDZ-BIOMED) (9 ECTS)		
Applicable pre-selection: (3 ECTS) • Machine Learning to Fight Infections • Machine Learning in Biomedicine			Master Thesis Presentation (3 ECTS)
Total: 30 ECTS	Total: 30 ECTS	Total: 30 ECTS	Total: 30 ECTS



Profiles: Profile B

Module Overview Profile B		
Module / Study Area:		ECTS
MEDZ-MEDINFO	Advanced Medical Informatics	9
MEDZ-BIOINFO	Advanced Bioinformatics	9
MEDZ-BIOMED	Biomedical Informatics	15
INFO-INFO	Computer Science	12
MEDZ-MEDTECH	Medicine–Medical Technology	9
MEDZ-RES	Research Project	9
MEDZ-SEM	Medical Informatics Seminar	3
MEDZ-INFO	Foundations of Biomedical Informatics	24
MASTER	Master's Thesis and Presentation	30
Total ECTS:		120



Variant B (1st semester in SS26)

Course Plan Example Profile B			
Semester			
1	2	3	4
Computational Workflows for Biomedical Data (3 ECTS)	Introduction to Statistical Machine Learning (6 ECTS)	Structure and Systems Bioinformatics (9 ECTS)	Master Thesis (27 ECTS)
Applicable pre-selection: (6 ECTS) - Machine Learning for Single-Cell Dynamics - Introduction to Cryptography - Tabular Database Systems - C++ Programming or any other INFO-INFO course			
Advanced Medical Informatics (9 ECTS)	Bioimaging (3 ECTS)	Research Project in Medical Informatics (or any 9 ECTS course eligible for MEDZ-BIOINFO or MEDZ-BIOMED) (9 ECTS)	
	Machine Learning for Single Cell Biology (6 ECTS)		
Biorobotics (6 ECTS)	Introduction to Data Structures and Programming for Life Scientists (9 ECTS)	Machine Learning to Fight Infections (3 ECTS)	
Applicable pre-selection: (6 ECTS) - Machine Learning for Single-Cell Dynamics - Introduction to Cryptography - Tabular Database Systems - C++ Programming or any other INFO-INFO course		Medical Data Science (6 ECTS)	
Total: 30 ECTS	Total: 30 ECTS	Total: 30 ECTS	Total: 30 ECTS



Profiles: Profile C

Module Overview Profile C		
Module / Study Area:		ECTS
MEDZ-MEDINFO	Advanced Medical Informatics	9
MEDZ-BIOINFO	Advanced Bioinformatics	9
MEDZ-BIOMED	Biomedical Informatics	15
INFO-INFO	Computer Science	12
MEDZ-MEDTECH	Medicine–Medical Technology	18
MEDZ-RES	Research Project	9
MEDZ-SEM	Medical Informatics Seminar	3
MEDZ-BASICMEDINFO	Foundations of Medicine and Bioinformatics	15
MASTER	Master's Thesis and Presentation	30
Total ECTS:		120



Variant C (1st semester in SS26)

Course Plan Example Profile C				
Semester				
1	2	3	4	
Advanced Medical Informatics (9 ECTS)	Nanoanalytics (3 ECTS)	Machine Learning for Single Cell Dynamics (6 ECTS)	Master Thesis (27 ECTS)	
	Humanbiologie 1 (6 ECTS)			
Einführung in die Immunologie (3 ECTS)	Medizinische Terminologie (3 ECTS)	Research Project in Medical Informatics (or any 9 ECTS course eligible for MEDZ-BIOINFO or MEDZ-BIOMED) (9 ECTS)		
Medical Data Science (6 ECTS)	Bioimaging (3 ECTS)			
	Advanced Immunology (3 ECTS)	Biorobotics (6 ECTS)		
Applicable pre-selection: (6 ECTS) • Machine Learning for Single-Cell Dynamics • Introduction to Cryptography • Tabular Database Systems • C++ Programming or any other INFO-INFO course	Applicable pre-selection: (6 ECTS) • Data Literacy • Advanced SQL • Deep Learning • Network Security I + II (6+6 ECTS) • C++ Programming or any other INFO-INFO course			Structure and Systems Bioinformatics (9 ECTS)
Applied Statistics for Biomedical Data Analysis (3 ECTS)	Machine Learning for Single-Cell Biology (6 ECTS)			
Computational Workflows for Biomedical Data (3 ECTS)				
Total: 30 ECTS	Total: 30 ECTS	Total: 30 ECTS		Master Thesis Presentation (3 ECTS)
Total: 30 ECTS				



Alma, Ilias, Moodle, ...

Various **digital tools** support you with checking course contents, choosing and signing up for lectures, and finding study materials (access via your ZDV login):

- **Course catalog** of all courses offered at the university, links to teaching websites of individual lecturers/research groups, as well as course pages at *Ilias* and *Moodle*:
 - **Alma:** <https://alma.uni-tuebingen.de>
- **Learning systems** used for distributing course materials and other relevant information:
 - **Ilias:** <https://ovidius.uni-tuebingen.de>
 - **Moodle:** <https://moodle.zdv.uni-tuebingen.de>
 - etc.

[Startseite](#)[Lehrorganisation](#)[Studienangebot](#)[Organisation](#)[Service](#)

▼

M.Sc. Medizininformatik / Medical Informatics (Version 2021)



▶

 [MEDZ-4110 Advanced Medical Informatics](#)



▶

 [MEDZ-SEM Medical Informatics Seminar](#)



▶

 [MEDZ-BIOINFO Advanced Bioinformatics](#)



▶

 [MEDZ-RES Research Project in Medical Informatics](#)



▶

 210 Variante A



▶

 220 Variante B



▶

 230 Variante C



▼ 210 Variante A

▼  MEDZ-BIOMED Biomedical Informatics

▼  MSc-MEDZ-BIOMED-21 Veranstaltungen: Biomedical Informatics

▶  MSc-MEDZ-BIOMED-21-VG2 M.Sc. MDZINF Biomedical Informatics (6 CP)

▶  MSc-MEDZ-BIOMED-21-VG3 M.Sc. MDZINF Biomedical Informatics (3 CP)

▶  MEDZ-MEDTECH Medicine-Medical Technology

▶  INFO-INFO Computer Science

▶ 220 Variante B

▶ 230 Variante C



Registration for Courses & Exams

How to register for courses and exams:

- Sign up for a **course** in *Ilias* or *Moodle* to get access to the course material and general information
- Register for **exams** preferably through *Alma*, but if this is not possible then at the examination office (Ms. Susanne Mischorr)
 - Remember to do this early (at least 2 weeks before the exam)



Examination Office (Prüfungssekretariat) BSc/MSc Medical Informatics

- Support in all examination-related matters
- Contact: Ms. Susanne Mischorr (see [here](#))

Board of Examiners ([Prüfungsausschuss](#)) MSc Medical Informatics

- advice regarding the curriculum
- Head of Board of Examiners: Prof. Dr. Nico Pfeifer
- Contact: see [here](#)

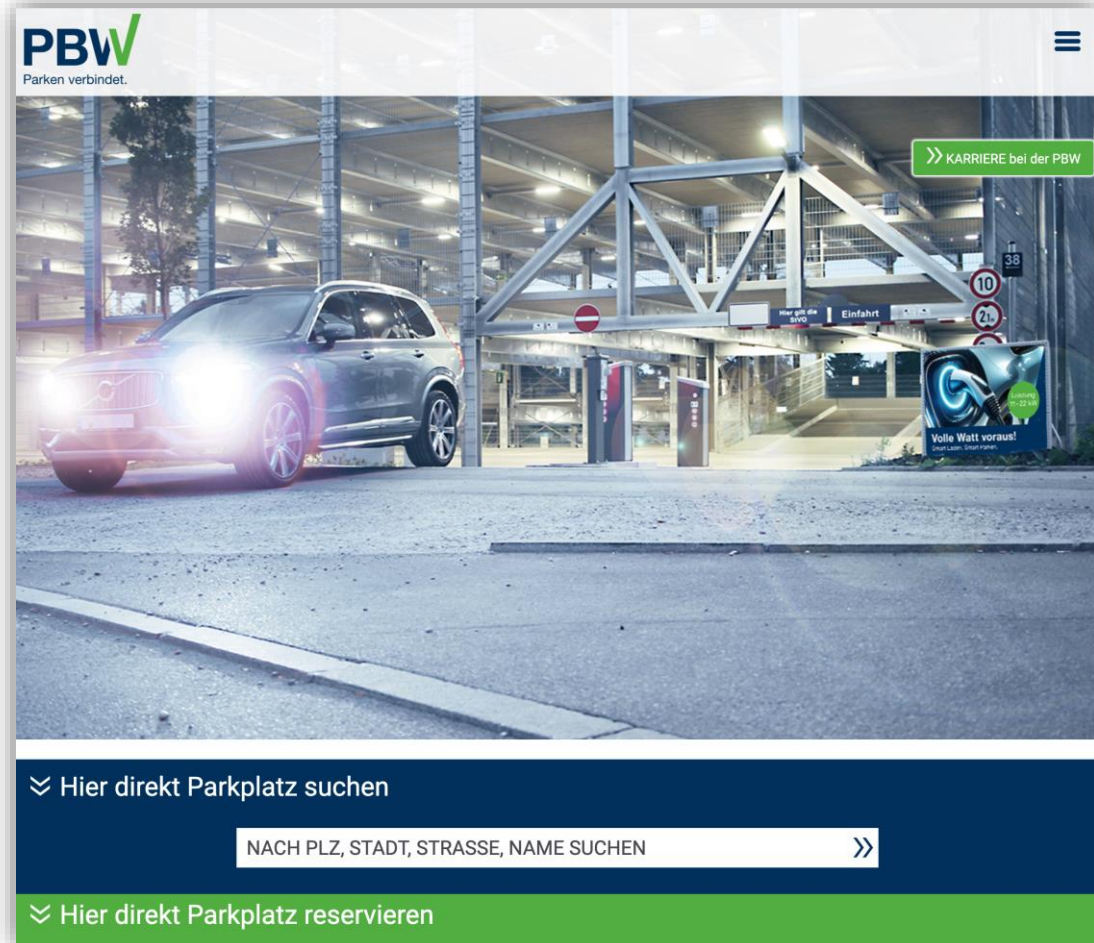
Studies coordinator MSc Medical Informatics

- Dr. Markus Zimmermann m.zimmermann@uni-tuebingen.de



Please note: free parking is no longer available.

Since 1 October 2025,
there is no longer any
free parking at the
university car parks.





Master's Café

- Informal meetup for all MSc first semester students
- Get to know your fellow students and some of the professors
- Today at 2:30 p.m.



Photo: [Marco Verch](#), CC-BY 2.0



Thank you!

**We wish you all the best with your studies
and for your time at Tübingen and beyond!**

Prof. Nico Pfeifer

Program Director
MSc Medical Informatics



**Dr. Markus
Zimmermann**

Studies Coordinator
MSc Medical Informatics

Slides available at: computer science department -> downloads