

BEMP Welcome



April 13, 2026
10:00 a.m.

MIBE lecture hall (5701.EG.026)

Academic Counseling



Dr. Marianne Köpf
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Speaker of the Degree
Program

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Munich Institute of Biomedical Engineering

A TUM Integrative Research Center

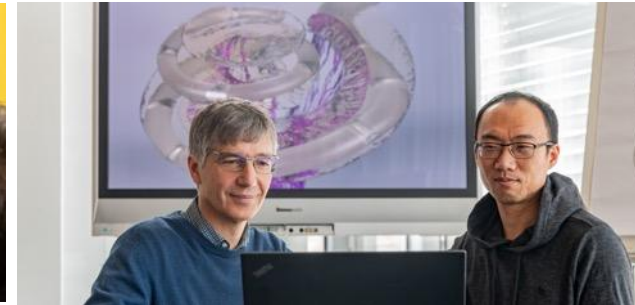
Bringing together transdisciplinary excellence into
research, teaching and entrepreneurship



**Medical Imaging &
Radiation Oncology**



**Biomedical Microscopy
& Virtual Pathology**



**Biosensors &
Smart Medical Devices**



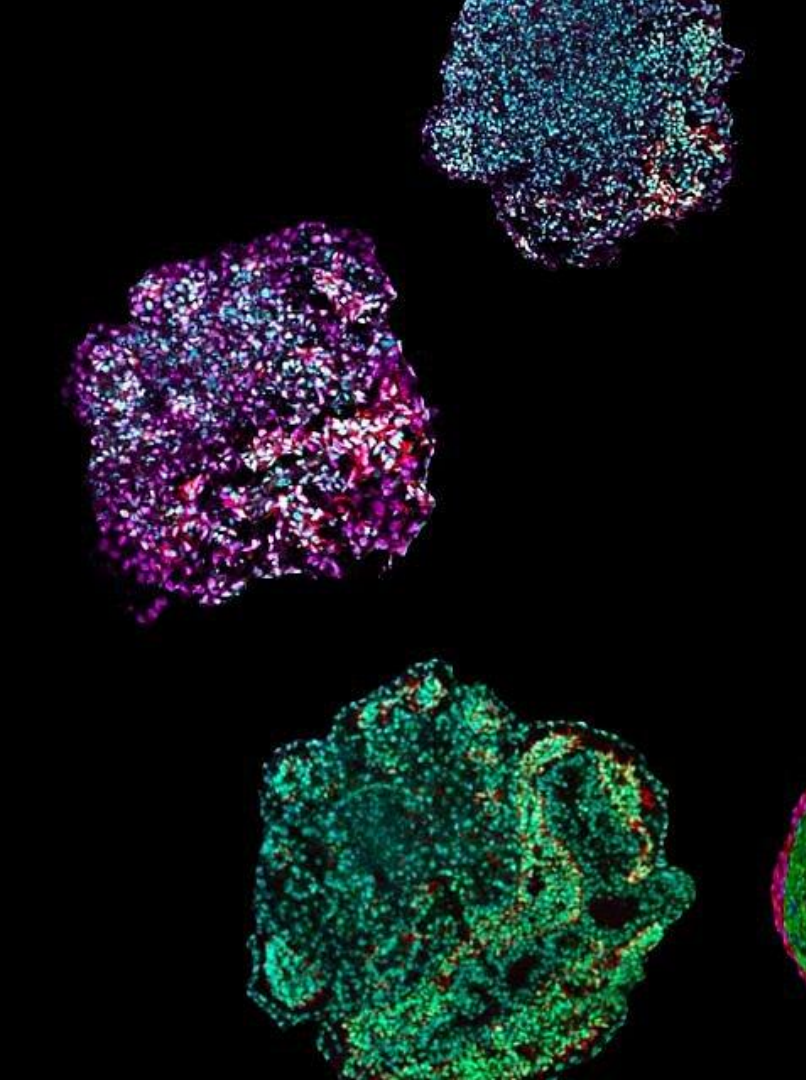
**Biomaterials
& Biomolecular Systems**



**Medical Image Processing
& Artificial Intelligence**



**Organoids &
Biological Model Systems**



A mini-heart in a Petri dish



Prof. Dr. Alessandra Moretti

Professorship of Regenerative Medicine in Cardiovascular Disease

[nature](#) > [nature biotechnology](#) > [articles](#) > [article](#)

Article | [Open access](#) | Published: 03 April 2023

Epicardioid single-cell genomics uncovers principles of human epicardium biology in heart development and disease

[Anna B. Meier](#), [Dorota Zawada](#), [Maria Teresa De Angelis](#), [Laura D. Martens](#), [Gianluca Santamaria](#), [Sophie Zengerle](#), [Monika Nowak-Imialek](#), [Jessica Kornherr](#), [Fangfang Zhang](#), [Qinghai Tian](#), [Cordula M. Wolf](#), [Christian Kupatt](#), [Makoto Sahara](#), [Peter Lipp](#), [Fabian J. Theis](#), [Julien Gagneur](#), [Alexander Goedel](#), [Karl-Ludwig Laugwitz](#), [Tatjana Dorn](#) & [Alessandra Moretti](#) 



X-ray dark-field chest imaging

Prof. Dr. Franz Pfeiffer

Professorship of Biomedical Physics

X-ray dark-field chest imaging for detection and quantification of emphysema in patients with chronic obstructive pulmonary disease: a diagnostic accuracy study

THE LANCET
Digital Health

Konstantin Willer, Alexander A Fingerle*, Wolfgang Noichl, Fabio De Marco, Manuela Frank, Theresa Urban, Rafael Schick, Alex Gustschin, Bernhard Gleich, Julia Herzen, Thomas Koehler, Andre Yaroshenko, Thomas Pralow, Gregor S Zimmermann, Bernhard Renger, Andreas P Sauter, Daniela Pfeiffer, Marcus R Makowski, Ernst J Rummeny, Philippe A Grenier, Franz Pfeiffer*



Summary

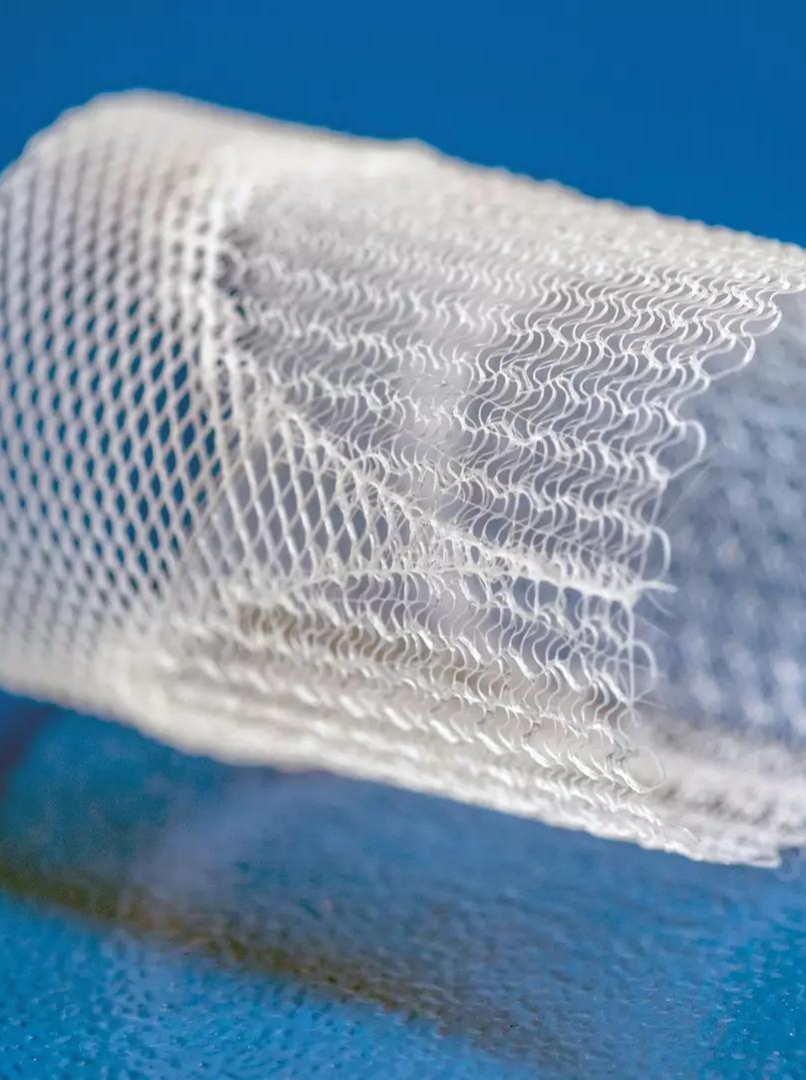
Background Although advanced medical imaging technologies give detailed diagnostic information, a low-dose, fast, and inexpensive option for early detection of respiratory diseases and follow-ups is still lacking. The novel method of x-ray dark-field chest imaging might fill this gap but has not yet been studied in living humans. Enabling the assessment of microstructural changes in lung parenchyma, this technique presents a more sensitive alternative to conventional chest x-rays, and yet requires only a fraction of the dose applied in CT. We studied the application of this technique to assess pulmonary emphysema in patients with chronic obstructive pulmonary disease (COPD).

Lancet Digit Health 2021;
3:e733-44

See Comment page e691

*Contributed equally

Department of Physics
(K Willer MSc, W Noichl MSc,
F De Marco PhD, M Frank MSc,



3D printed, bioinspired heart valves

Prof. Dr. Petra Mela

Professorship of Medical Materials and Implants

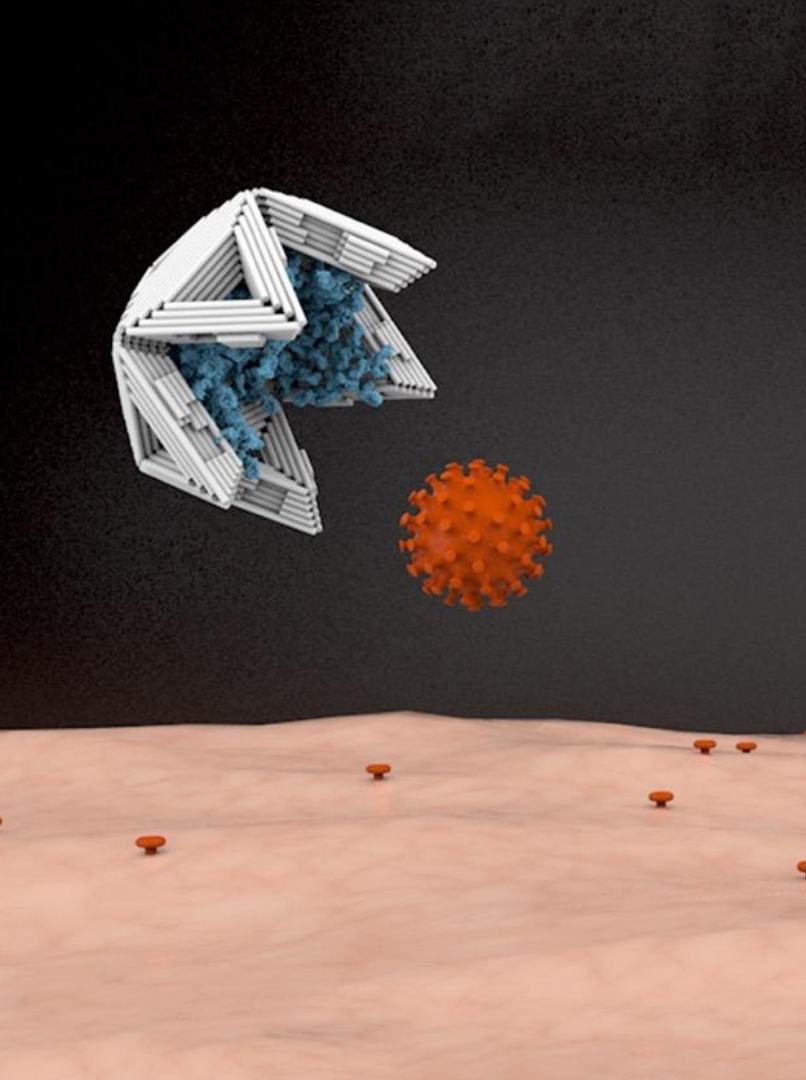
ADVANCED FUNCTIONAL MATERIALS

Research Article |  Open Access | 

Spatially Heterogeneous Tubular Scaffolds for In Situ Heart Valve Tissue Engineering Using Melt Electrowriting

Navid Toosi Saidy, Alicia Fernández-Colino, Behzad Shiroud Heidari, Ross Kent, Michael Vernon, Onur Bas, Shane Mulderrig, Andreas Lubig, José Carlos Rodríguez-Cabello ... [See all authors](#) ▾

First published: 15 February 2022 | <https://doi.org/10.1002/adfm.202110716> | Citations: 37



The virus trap



Prof. Dr. Hendrik Dietz

Professorship of Biomolecular Nanotechnology

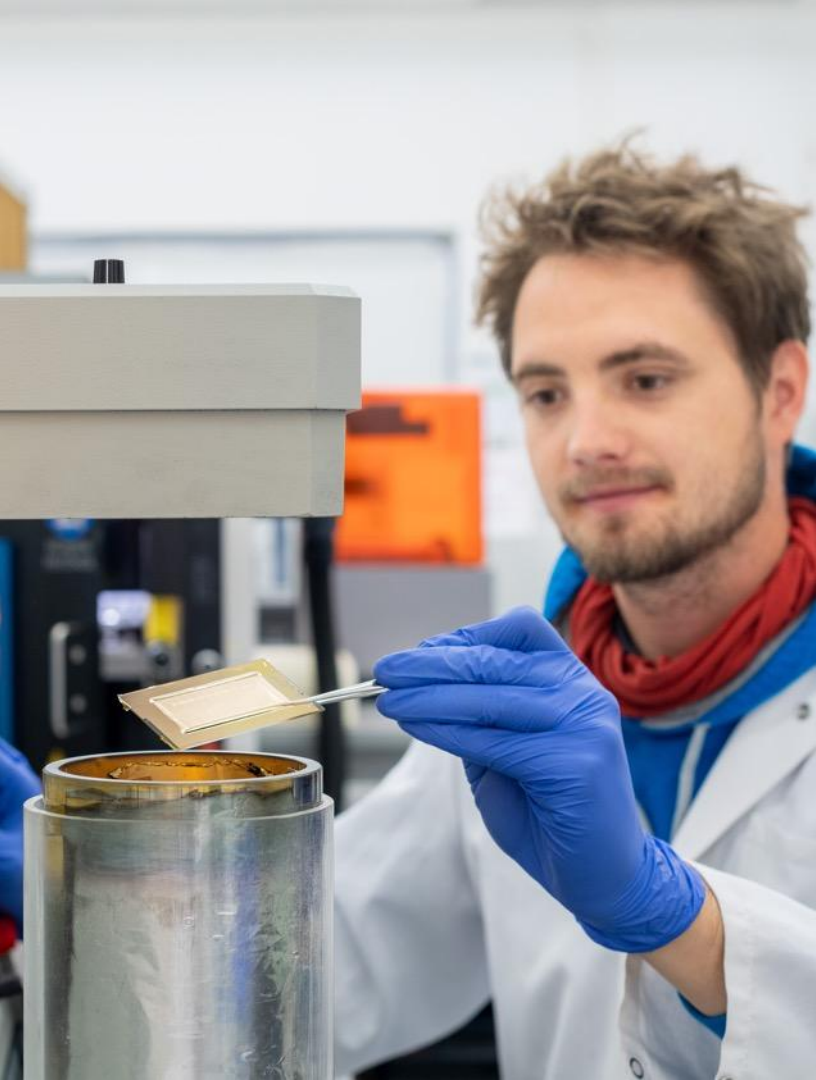
Article | [Published: 14 June 2021](#)

Programmable icosahedral shell system for virus trapping

[Christian Sigl](#), [Elena M. Willner](#), [Wouter Engelen](#), [Jessica A. Kretzmann](#), [Ken Sachenbacher](#), [Anna Liedl](#),
[Fenna Kolbe](#), [Florian Wilsch](#), [S. Ali Aghvami](#), [Ulrike Protzer](#), [Michael F. Hagan](#), [Seth Fraden](#) & [Hendrik Dietz](#)



[Nature Materials](#) **20**, 1281–1289 (2021) | [Cite this article](#)



4D printing for nerve stimulation



Prof. Dr. Bernhard Wolfrum
Professorship of Neuroelectronics

ADVANCED MATERIALS

Research Article | [Open Access](#) |

4D-Printed Soft and Stretchable Self-Folding Cuff Electrodes for Small-Nerve Interfacing

Lukas Hiendlmeier, Francisco Zurita, Jonas Vogel, Fulvia Del Duca, George Al Boustani, Hu Peng, Inola Kopic, Marta Nikić, Tetsuhiko F. Teshima, Bernhard Wolfrum

First published: 02 January 2023 | <https://doi.org/10.1002/adma.202210206> | Citations: 2

Finding A Common Language



Foster interdisciplinary work



Prepare for research in academia and industry



Highly flexible curriculum – focus on imaging & biosensors

Structure of the Degree Program

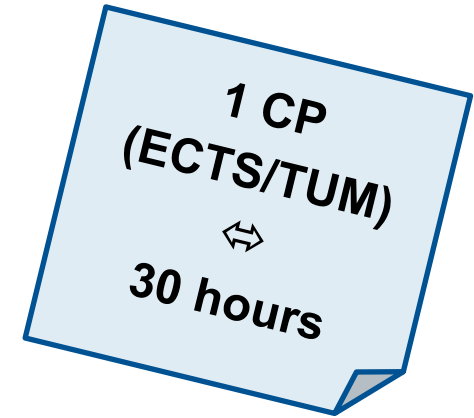
Pass 2/4 mandatory modules by end of 2nd Semester

		Module	Credit in total	
Study phase	1.	<p>Mandatory modules</p> <p><u>PH2001</u> Biomedical Physics 1 (5 CP)</p> <p><u>PH2002</u> Biomedical Physics 2 (5 CP)</p> <p><u>NAT3025</u> Biostatistics (5 CP)</p> <p><u>MEBB256</u> Introduction to Bioengineering (5 CP)</p>	<p>Elective modules from the focus areas in total 20 CP</p>	30
	2.	<p>Elective modules from the focus areas in total 10 CP</p> <p>BEMP Lab Course 6 CP</p> <p>General Education Subjects 4 CP</p>	30	
Research phase	3.	<p>Master's Seminar 15 CP</p> <p>Master's Work Experience 15 CP</p>	30	
	4.	<p>Master's Thesis 30 CP</p>	30	

Workload

At TUM one credit point values one ECTS credit point.

- For a **5 CP** module the workload is **150 hours!**
- for **14 weeks** of lecture time (25S) it is **10 hours/week** and additional **10 hours** for exam preparation.



Example: Biostatistics

- 5 ECTS x 30 h / ECTS = 150 h
- 90 min lectures + 45 min exercise every week → 14 x 3 x 1 h = 42 h
- 90 min final exam
 - 150 h – 42 h – 1.5 h = 106.5 h
 - 106.5 h / 14 weeks = 8 h / week self study, exercise for this course

Structure of the Degree Program

	Semester	Module	Credit in total
Study phase	1.	Mandatory modules (two out of four) 10 CP	30
	2.	Mandatory modules (two out of four) 10 CP	
Research phase	3.	Master's Seminar 15 CP	Master's Work Experi 15 CP
	4.	Master's Thesis 30 CP	

The modules are assigned to the following three categories:

- Advanced Fundamentals
- Methods
- Computing

The modules in these categories are in themselves assigned to the two focus areas:

- Imaging and
- Biosensors.

Elective Modules



Elective Modules Advanced Fundamentals BEMP (at least 10 CP)

Elective Modules Computing BEMP (at least 5 CP)

Number Title

IN2323 Machine Learning
Sequential Decision

IN2346 Introduction to

IN2408 Artificial Intelligence

Previous page

Elective Modules Advanced Fundamentals BEMP (at least 10 CP)

Number Title Responsible

EI71057 Regulatory Aspects for Medtech Products Hayden

IN2305 Cyber-Physical Systems Althoff

PH2014 Physical Biology of the Cell 2 Duder

PH2049 Nanostructured Soft Materials 2 Müller Peter

WZ2427 Molecular Cell Biology of Tumorigenesis Janßen

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Elective Modules Methods BEMP (at least 10 CP)

Number	Title	Responsible	Cycle	Credits
CH0170	Mammalian Cell Engineering	Westmeyer, Gil	S+W	5
EI70210	Biomolecular Electronics	Tornow, Marc	S	5
EI70270	Neuroprosthetics	Hemmert, Werner	S+W	5
EI71028	Microphysiometry	Hayden, Oliver	S	5
EI71032	In vitro Diagnostics	Hayden, Oliver	S+W	5

Elective Modules Computing BEMP (at least 5 CP)

Number Title Responsible Cycle Credits

EI70220 Digital Signal Processing Steinbach, Eckehard S+W 5

IN2222 Cognitive Systems Knoll, Alois Christian S 5

IN2346 Introduction to Deep Learning Nießner, Matthias S 6

Previous page

Next page

at least 10

al Engineering and Medical Physics

Responsible Cycle Credits Ima Bio

Macián-Juan, Rafael S 5 ✓ ×

Mela, Petra S 5 × ✓

Kienberger, Reinhard S 5 ✓ ×

Finley, Jonathan W 5 ✓ ×

Küster, Bernhard S+W 3 × ✓

- > For Faculty and Staff
- ▼ For Students
 - > Bachelor
 - ▼ Master
 - Biochemie
 - **Biomedical Engineering and I**
 - > Chemie
 - Chemieingenieurwesen
 - Quantum Science and Technolc
 - > Study Abroad
 - > Information for more than one St
 - > For Doctoral Candidates
 - > For All

Biomedical Engineering and Medical Physics

Information about the BEMP Master's degree program can be found on our [website](#). Here in this Wiki you will find additional i

Legal Basis of the BEMP Master's degree program

You can find information on the academic and examination regulation in the Academic and Examination Regulations (Fachprüf Studienordnung): <https://academics.nat.tum.de/en/msc/bemp/legal-basis>

The most important points are as follows:

- You must take all four mandatory modules and at least pass **two of the four mandatory** modu
 - Academic progress check ("not more than one year behind"). The credit points have to be from
 - by the end of the 3rd semester: 30 credit points
 - by the end of the 4th semester: 60 credit points
 - by the end of the 5th semester: 90 credit points
 - by the end of the 6th semester: 120 credit points*
- there is only one exemption, if you do not have 120 credit points at the end of the 6th semeste
have to finalize your studies. See FAQ: [Academic Progress Check](#)





FS (Fachschaft) **MPIC**

Sommer Semester 2026

Fachschaft?

What is a good translation of the German word "Fachschaft" to english?

The best translation of *Fachschaft* depends on the context:

1. **Student Association / Student Council** – If referring to a student-led organization within a university department.
2. **Departmental Student Committee** – A more precise term for a student group representing a specific subject or faculty.
3. **Student Body of [a Subject]** – If referring broadly to all students in a particular department.

There's no perfect one-to-one translation, so the best choice depends on how formal or informal the context is.

German lessons woووо :)



What is the Fachschaft?



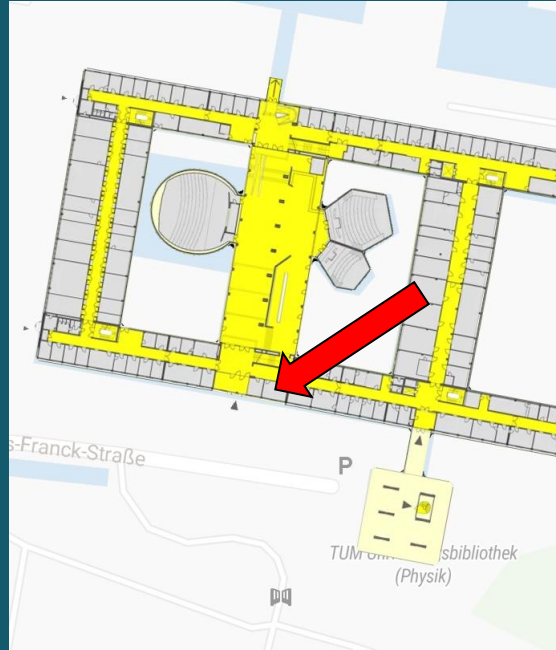
- Fachschaft = all of us?!
- Active Fachschaft: motivated students who work on improving all student's lives
- The next thing you can do to improve your fellow student's life I'll tell you at the end



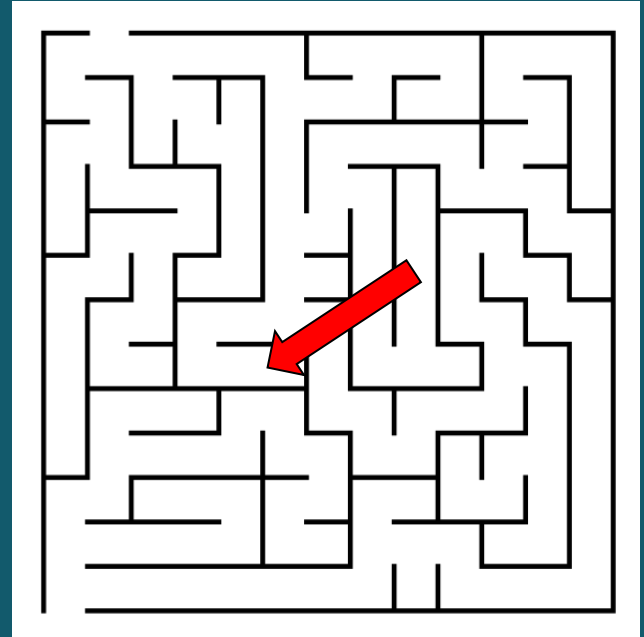
Where can you find us?



Maths-Computer Science Building



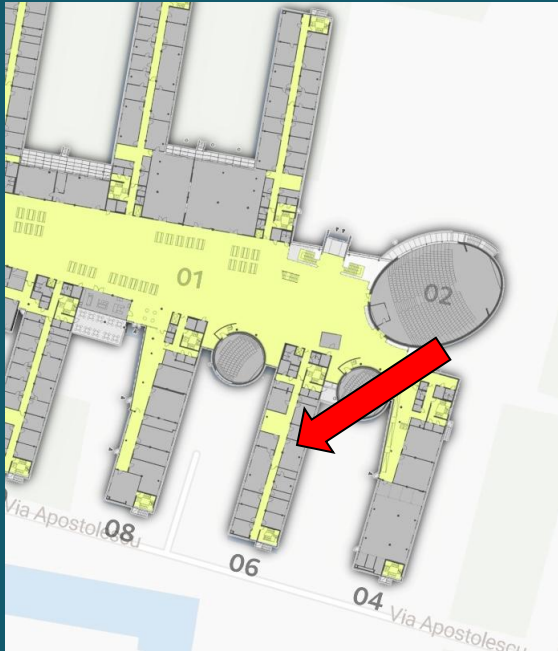
Physics Building



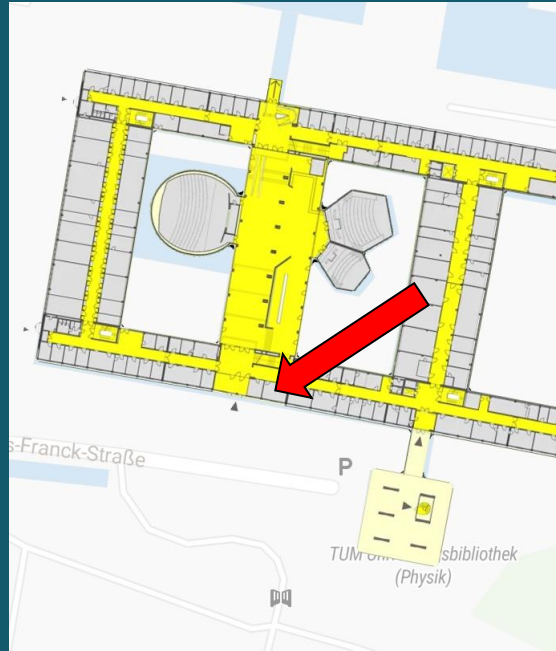
Chemistry Building



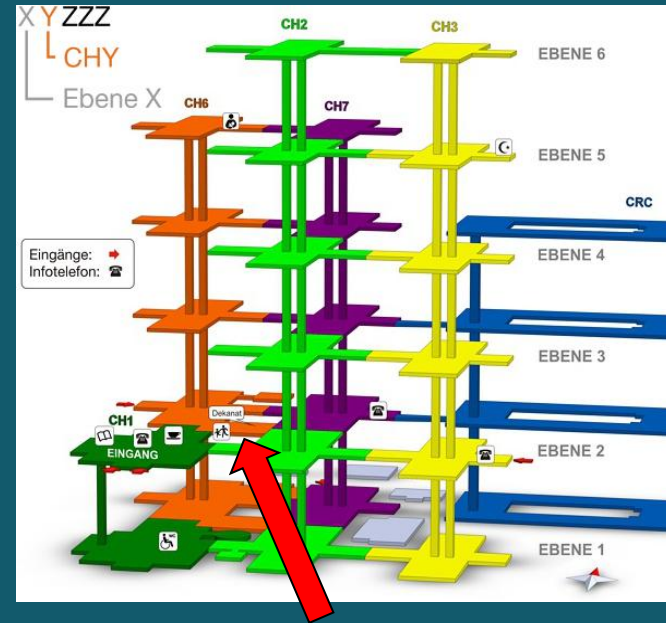
Where can you find us?



Maths-Computer Science Building



Physics Building



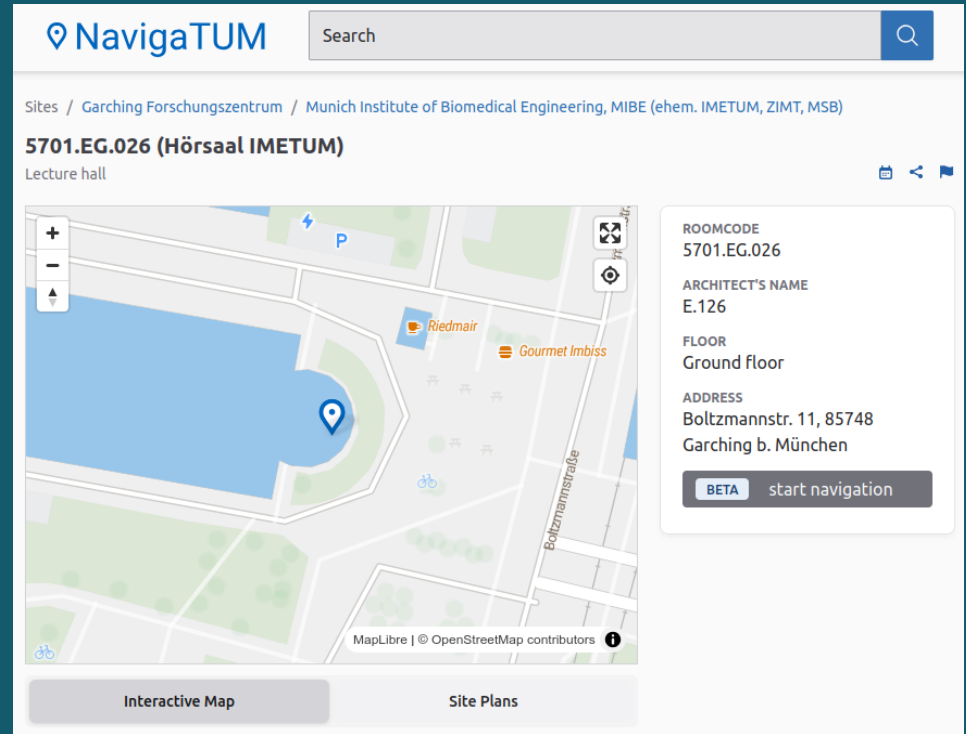
Chemistry Building



In any case for roomfinding

<https://nav.tum.de/>

Use it, it's really good!



The screenshot displays the NavigaTUM interface. At the top, there is a search bar and the NavigaTUM logo. Below the search bar, the breadcrumb trail reads: Sites / Garching Forschungszentrum / Munich Institute of Biomedical Engineering, MIBE (ehem. IMETUM, ZIMT, MSB). The main heading is **5701.EG.026 (Hörsaal IMETUM)**, with the subtitle "Lecture hall". To the right of the heading are three small icons: a calendar, a share icon, and a printer icon. The central part of the page features a map with a blue location pin on a large blue area. The map includes zoom controls on the left and a compass on the right. Labels on the map include "Riedmair", "Gourmet Imbiss", and "Boltzmannstraße". At the bottom of the map, it says "MapLibre | © OpenStreetMap contributors". To the right of the map is a sidebar with the following information: ROOMCODE: 5701.EG.026; ARCHITECT'S NAME: E.126; FLOOR: Ground floor; ADDRESS: Boltzmannstr. 11, 85748 Garching b. München. At the bottom of the sidebar is a button labeled "BETA start navigation". Below the map, there are two buttons: "Interactive Map" and "Site Plans".



Our Services for You

-Rentals-

Maths-Computer Science-Building:

- Ping-pong paddles (and balls)
- Volleyballs
- Basketballs
- Calculators
- Piano



Physics-Building:

- Ping-pong paddles (and balls)
- Calculators

Chemistry-Building:

- Volleyballs
- Basketballs
- Safety-goggles
- Molecule construction kits



Our Services for You

Maths-Computer Science Building:

- Use of the kitchen
- Printing of thesis
- Printing 3D-Objects



Physics Building:

- Use of the kitchen
- Use of coffee machine and kettle

Chemistry Building:

- Sale of lab coats
- Operating a vending machine for drinks



How do we shape the university?

- Representation on committees
- Co-writing the study regulations
- Distributing funds for teaching
- Carrying out the teaching evaluations
- Co-Decision-Making in the appointment of professors



How can you reach us?

Website: mpic.fs.tum.de
E-Mail: fsmPIC@fs.tum.de
Instagram: [mpic_tum](https://www.instagram.com/mpic_tum)
Telegram: t.me/fsmPIC



Phone:
MI: 089 289 18545
Physics: 089 289 12664
Chemistry: 089 289 13006

**Just drop by for our services, if you have questions or for just hanging out.
We´re there for you!**



Election of semester speakers



Your Tasks as Semester Speaker

- Communication between your semester and the Fachschaft
- Lots of freedom in the organization of events in your semester
- Communications with professors and lecturers



The Election Process

1. Candidates come forward and **briefly** themselves
2. Each person has two votes, which are cast by a show of hand
3. The two candidates with the most votes are elected, provided they accept the election





Fachschaft NAT

**Your Fachschaft
wishes you lots of
fun in the new
semester**



Biomedical Physics

Biomedical Physics

Florian Schaff und Alex Gustschin



Contents

Biomedical Physics I

A. Medical Imaging

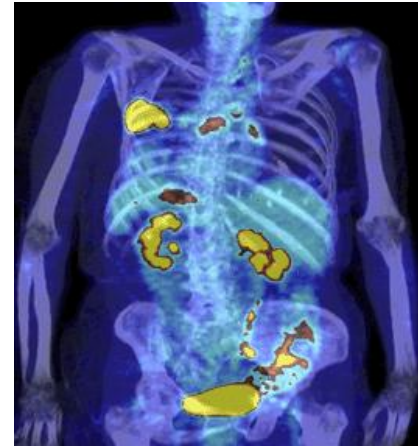
A.1 X-ray Imaging

A.2 Magnetic Resonance Imaging

A.3 Nuclear Imaging

A.4 Ultrasound

A.5 Artificial Intelligence



Contents

Biomedical Physics II

B. Therapeutic Applications

B.1 Radiation Therapy

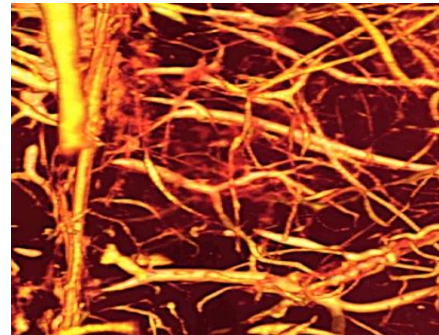
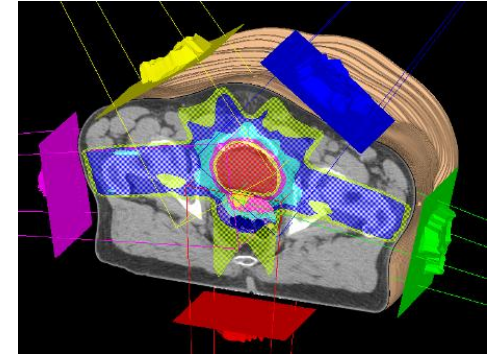
B.2 Laser Applications

C. Biomedical Microscopy

C.1 Light Microscopy

C.2 Electron Microscopy

C.3 X-ray Microscopy

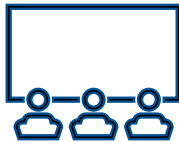



Hybrid Format


Lecture content online





Discussion on Campus *“Exercise” in TUMOnline*





5 May - 11 May 


 Available from **5 May 2025, 2:00 PM**

 X-ray Interaction - Handout

 X-ray Interaction - Notes

 X-ray Interaction - Recordings

 X-ray Interaction - Quiz

 Available from **12 May 2025, 2:00 PM**

Frequently asked questions



Do I need to attend BMP1 before attending BMP2?

No, BMP2 does not require knowledge from BMP1. Both lectures are offered in summer and winter terms simultaneously.

How often can I attempt the BMP1/2 exams?

Unlimited attempts until you pass, within BEMP study progress checks. Exams for BMP1/2 are offered after every semester.

Is attendance to the discussion rounds mandatory?

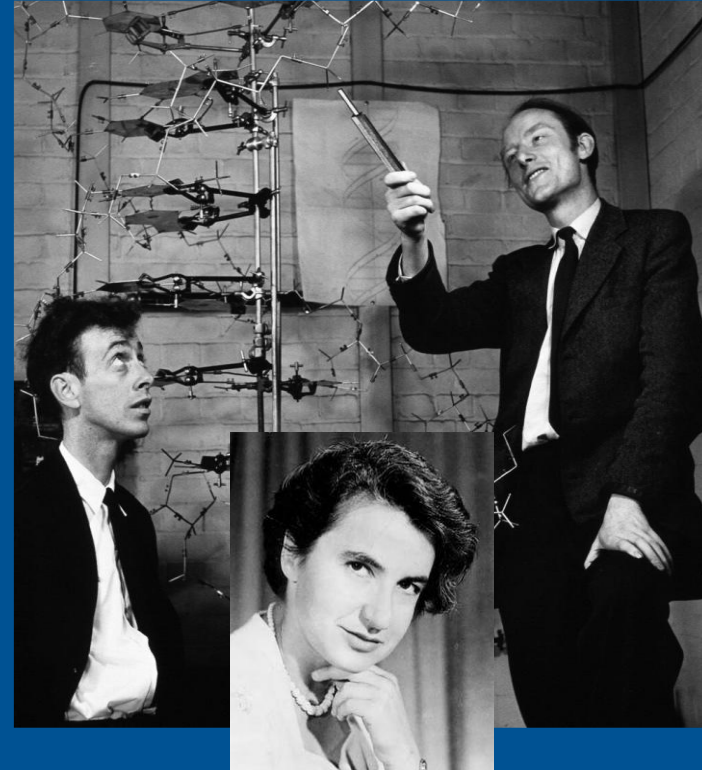
Although highly recommended, there is no attendance requirement for the discussion rounds.

Does BMP1/2 replace specialized lectures on specific topics?

BMP1/2 provides a basic introduction to a wide range of topics and won't be as detailed as lectures dedicated to single topics.

Introduction to Bioengineering

Dominik Selzner & Erik Riedel



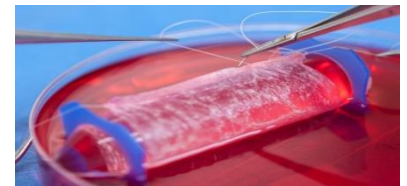
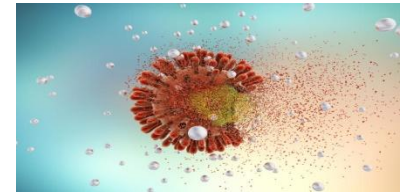
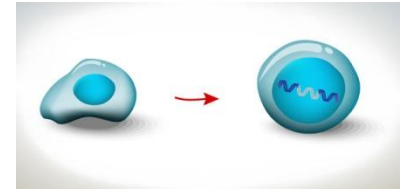
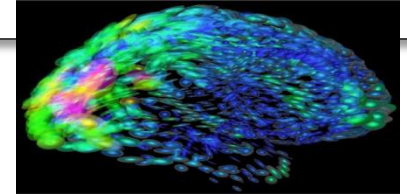
Introduction to Bioengineering 2026

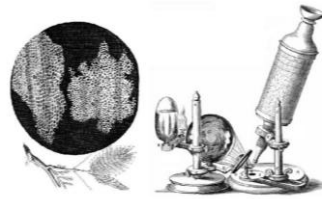
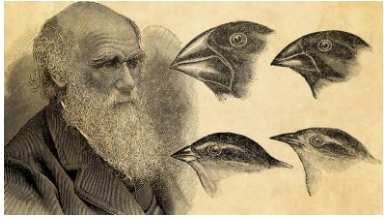


Date / Time: Monday 16:30 – 18:00
Location : TranslaTUM Auditorium



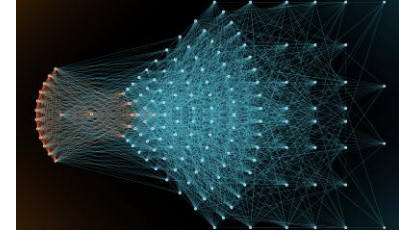
Topic Diversity





Observation & Discovery

Bioengineering



Engineering of solutions

Basic elements of class structure

Observation / Technology

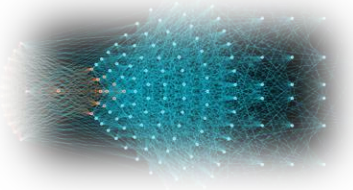


engineering of

physical systems

i.e. technology driven life-sciences
and medicine

Analysis / Computation



biological systems

i.e. protein, gene, cell-engineering
(synthetic biology)

Effectuation

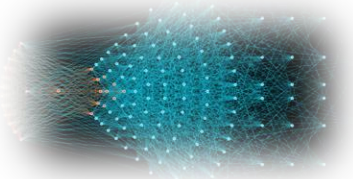


Basic elements of class structure

Observation / Technology



Analysis / Computation



Effectuation



Introduction

*Philosophy and Basics of
Bioengineering and Biomedical Engineering*

Primer: Cell Biology

*Cell components, Transcription / Translation,
Regulation, Compartments*

Primer: Signaling & Physiology

*Endocrine, Nervous systems, Cellular signaling &
Computing, Electrophysiology.*

Biomedical signal detection I / II

Sensing and analysis of biomedical signals

Biological laboratory techniques

Instrumentation and methods for biology

Omics- technologies

Sequencing, Genomics, Proteomics

Protein & Cell engineering

Methods, Example, computational techniques

Gene editing

Classic methods, CRISPR-Cas

Microscopy

Methods, Applications

The student ...

... builds basic terminology in life sciences
... refreshes basic knowledge on **bio- / physiological structures** and processes

... understands biomedical signals and basic methodologies that can acquire them and analyze them
... understands techniques to acquire **OMICS information**
... understands basic biological laboratory techniques from an engineering perspective
... understands major challenges in biology and medicine and the need for advanced solutions / engineering

... is introduced to modern medical concepts including early detection and prevention
... is introduced to the big data needs of modern biology interrogations

... knows the fundamental principles how to **engineer proteins, cells and genes** and the necessary data and tools
... knows the strategies for **bioengineered drug design**

... grasps the magnitude of **future** perspectives & future questions and can **orient** in the relevant disciplines and technologies
... understands the **ethic implications**

Structure

Lectures: 13 x 90 min – at least 50% contribution to exams

In class practice : 13 x 60 min - up to 50% contribution to exams

Homework: To enhance comprehension
- Bonus: 0.3 grade improvement (if exam passed)

Date	Lecture (16:30 – 18:00)	Exercise (18:15 – 19:00)
13.04.2026	Introduction	Introduction to the Research Groups at TUM
20.04.2026	Introduction Cell Biology	Extended Lecture / Discussion / Case Study
27.04.2026	Introduction Physiology / Signaling	Extended Lecture / Discussion / Case Study
04.05.2026	Biomedical Sensing I	Introduction to Data Acquisition
11.05.2026	Biomedical Sensing II	Basic Data Processing (Fourier Analysis I)
18.05.2026	Laboratory Methods I	Advanced Data Processing (Fourier Analysis II)
25.05.2026	— <i>Whitsun Break</i> —	— <i>Whitsun Break</i> —
01.06.2026	Laboratory Methods II	Fourier Analysis: Applications
08.06.2026	Protein / Cell Engineering	Basics of Literature Research
15.06.2026	Computational Protein Engineering	Protein Structures
22.06.2026	Genomics	Intro to AlphaFold / Rosetta
29.06.2026	Gene Editing	Databases
06.07.2026	Microscopy	Microscopy
13.07.2026	Wrap Up	Statistics for Your Research

Biostatistics

Bernhard Gleich & Thorsten Sellerer

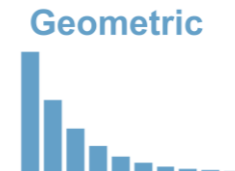
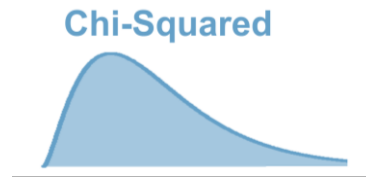
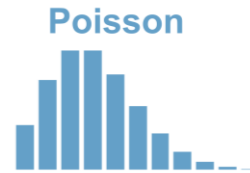
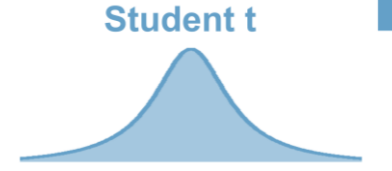
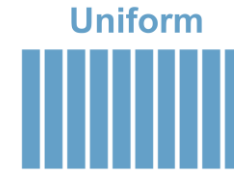
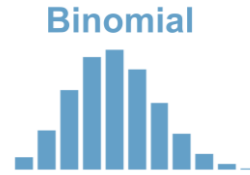


Biostatistics

Bernhard Gleich

Thorsten Sellerer

Gregor Breitenhuber



Lecture Contents



Before
lectures
start

Part 0

Online Precourse in Moodle – this content is required for the lecture

Lecture Contents

Before
lectures
start

Part 0

Online Precourse in Moodle – this content is required for the lecture

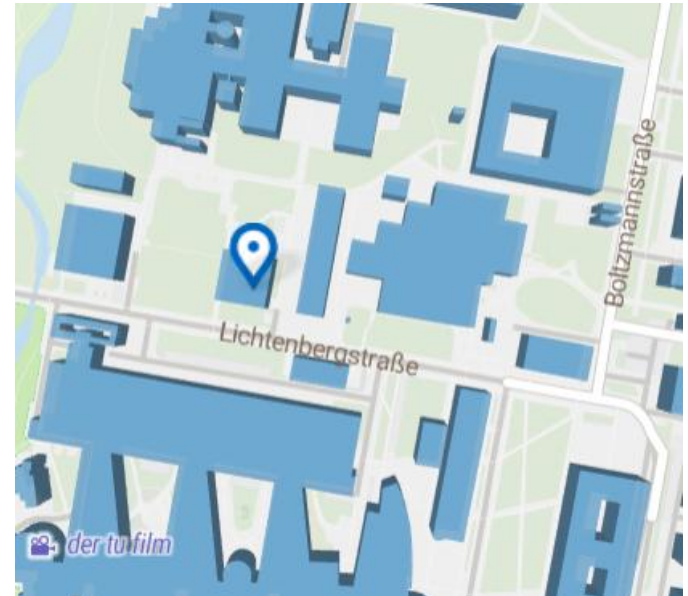
Lecture + Exercise:

- Tuesday, 14:00 - 17:00
- Interims II
(5416.01.003)



Q&A Session:

- Wednesday, 13:00 - 14:00,
- E.126, Hörsaal MIBE
(5701.EG.026)



Lecture Contents

Before
lectures
start

Part 0

Online Precourse in Moodle – this content is required for the lecture

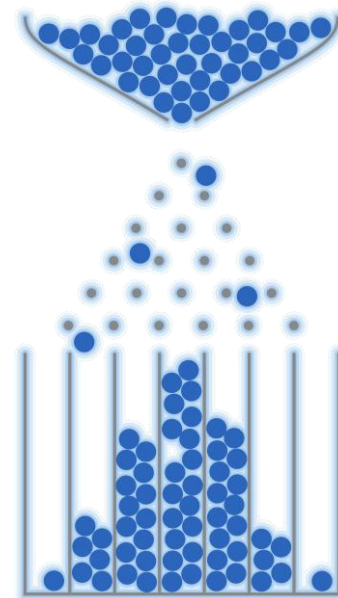
Part 1

Week 1

1. Advanced Distributions I



Week 8



Lecture Contents

Before
lectures
start

Part 0

Online Precourse in Moodle – this content is required for the lecture

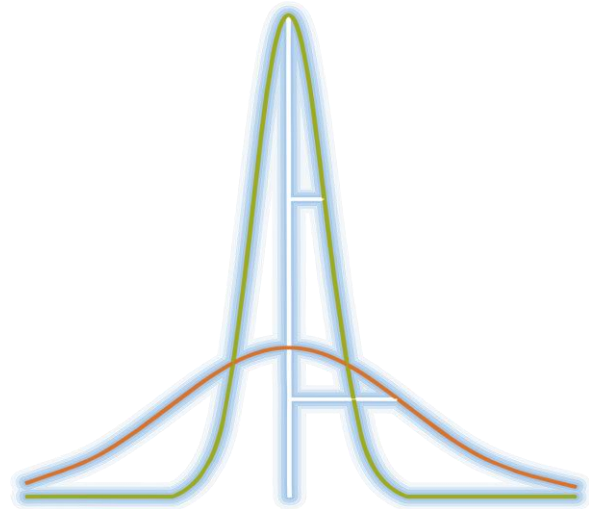
Part 1

Week 1

1. Advanced Distributions I
2. Advanced Distributions II



Week 8



Lecture Contents

Before
lectures
start

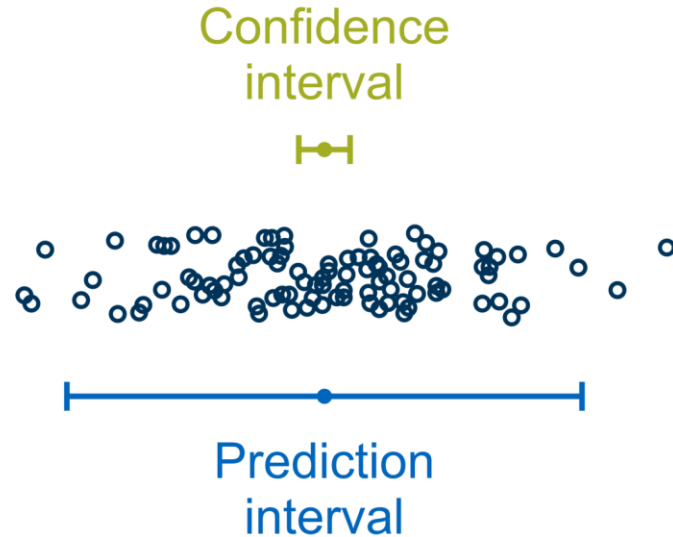
Part 0

Online Precourse in Moodle – this content is required for the lecture

Part 1

Week 1

1. Advanced Distributions I
2. Advanced Distributions II
3. Estimations



Week 8

Lecture Contents

Before
lectures
start

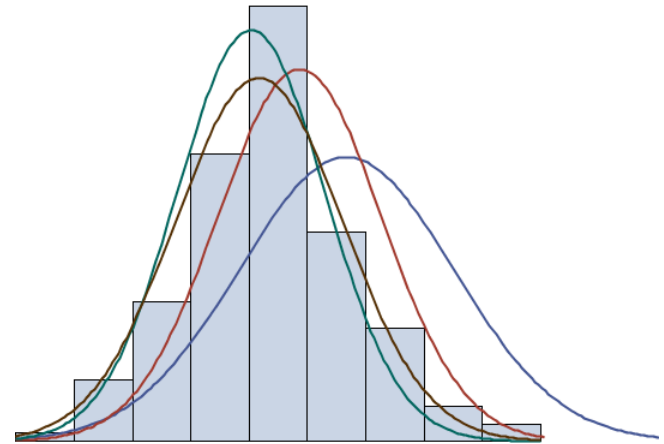
Part 0

Online Precourse in Moodle – this content is required for the lecture

Part 1

Week 1

1. Advanced Distributions I
2. Advanced Distributions II
3. Estimations
4. Maximum Likelihood Estimation I
5. Maximum Likelihood Estimation II



Week 8

Lecture Contents

Before
lectures
start

Part 0

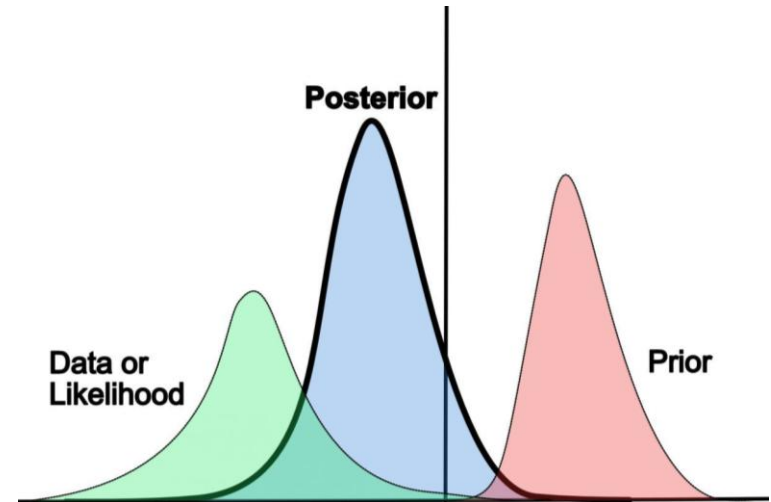
Online Precourse in Moodle – this content is required for the lecture

Part 1

Week 1

1. Advanced Distributions I
2. Advanced Distributions II
3. Estimations
4. Maximum Likelihood Estimation I
5. Maximum Likelihood Estimation II
6. Bayesian Statistics I
7. Bayesian Statistics II

Week 8



Lecture Contents

Before
lectures
start

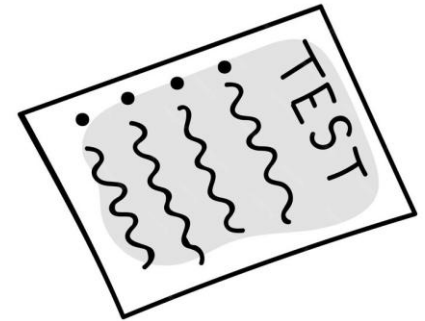
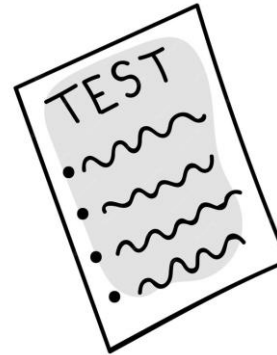
Part 0

Online Precourse in Moodle – this content is required for the lecture


Part 1

Week 1

1. Advanced Distributions I
2. Advanced Distributions II
3. Estimations
4. Maximum Likelihood Estimation I
5. Maximum Likelihood Estimation II
6. Bayesian Statistics I
7. Bayesian Statistics II



50% of all credits or better

 0.3 bonus to passed final exam

Week 8

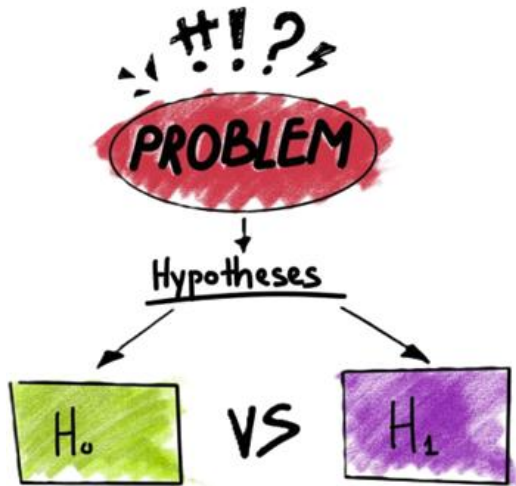
8. Mid-Term Exam (11.12.2025)

Lecture Contents

Before
lectures
start

Part 0

Online Precourse in Moodle – this content is required for the lecture



Week 9



Week
10-11

Part 2

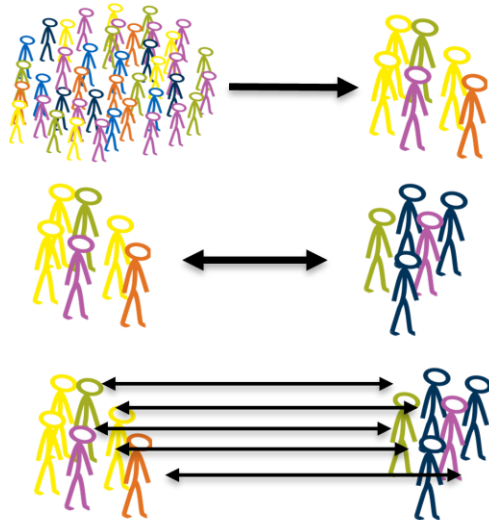
8. Hypothesis Testing

Lecture Contents

Before
lectures
start

Part 0

Online Precourse in Moodle – this content is required for the lecture



Week 9



Week
10-11



Part 2

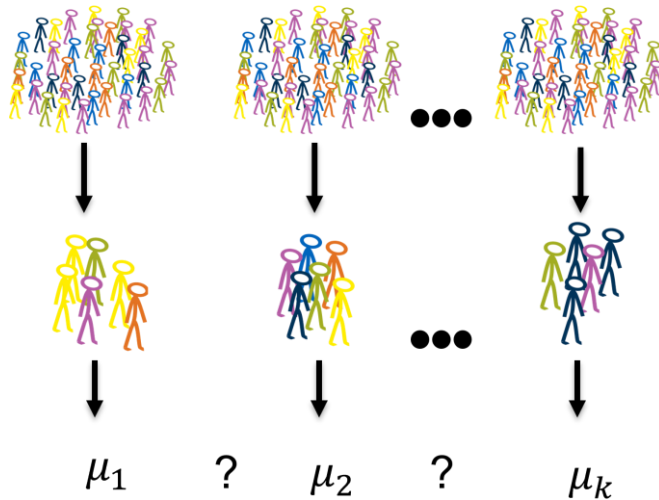
- 8. Hypothesis Testing
- 9. One-and Two Sample Tests

Lecture Contents

Before
lectures
start

Part 0

Online Precourse in Moodle – this content is required for the lecture



Week 9



Week
10-11



Part 2

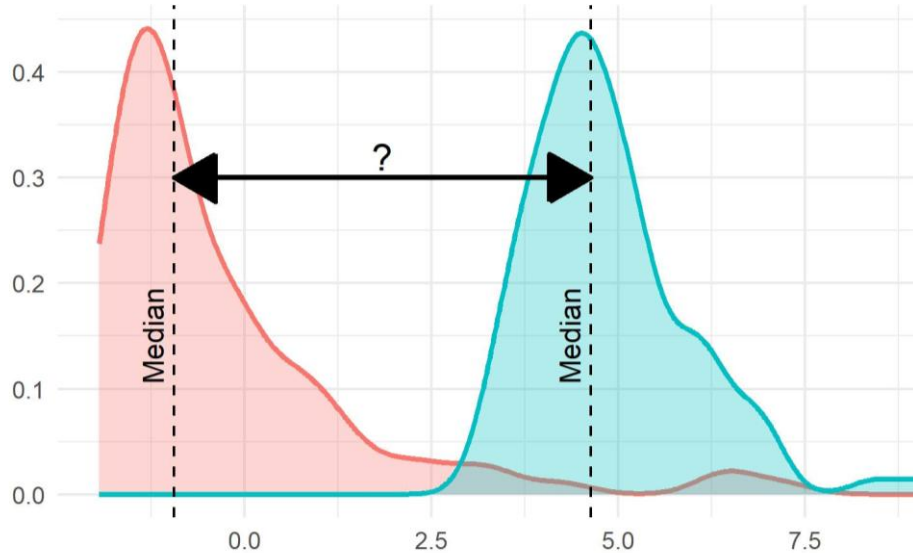
8. Hypothesis Testing
9. One-and Two Sample Tests
10. Multi-Sample Inference

Lecture Contents

Before
lectures
start

Part 0

Online Precourse in Moodle – this content is required for the lecture



Week 9



Week
10-11



Part 2

8. Hypothesis Testing
9. One-and Two Sample Tests
10. Multi-Sample Inference
11. Rank Tests

Lecture Contents

Before
lectures
start

Part 0

Online Precourse in Moodle – this content is required for the lecture

Hair Color			
Eye Color	Blonde	Brown	Black
Green	4	2	1
Blue	7	4	2
Black	2	18	5
Brown	1	2	2

Week 9



Week
10-11



Part 2

8. Hypothesis Testing
9. One-and Two Sample Tests
10. Multi-Sample Inference
11. Rank Tests
12. Categorical Data

Lecture Contents

Before
lectures
start

Part 0

Online Precourse in Moodle – this content is required for the lecture

Preparation for the exam:

- Attend each lecture (from the start)
- Practice the provided exercise sheets
- Attend voluntary tutorials regularly
- Use the Moodle forum to ask questions

Week 9



Week
10-11



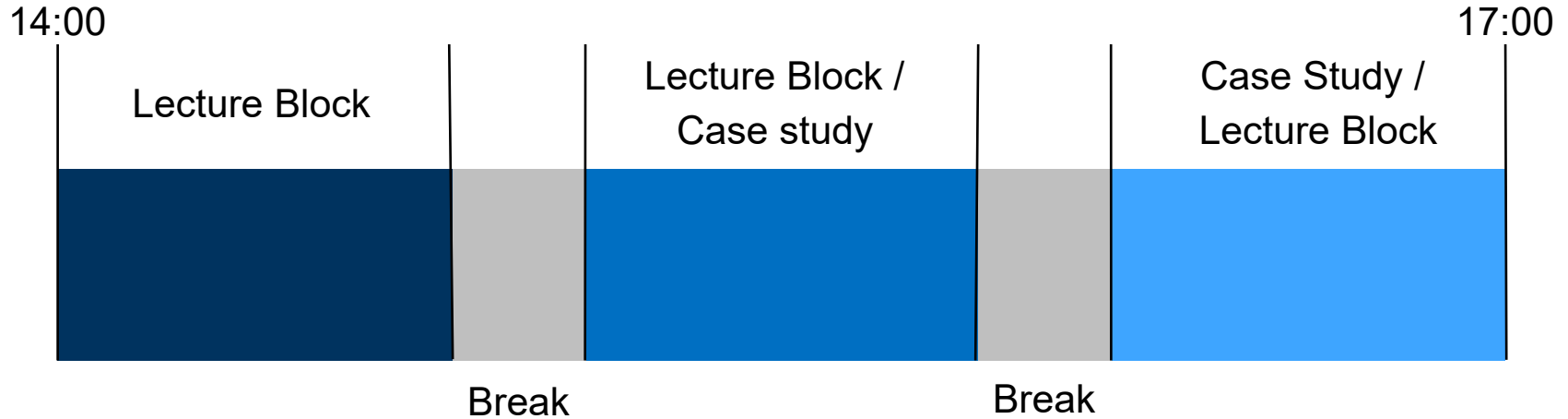
Week 16

Week 20

Part 2

8. Hypothesis Testing
9. One-and Two Sample Tests
10. Multi-Sample Inference
11. Rank Tests
12. Categorical Data
13. Repetition Lecture
14. Final Exam (10.08.2026)

Lecture Format



Case Study

