



Welcome Introduction

Prof. Dr. Bjoern Andres – Program Coordinator

Dresden, 2024-04-10

Agenda

- 1. Welcome and opening remarks (Prof. Dr. Andres)
- 2. TU Dresden and the faculties involved (Prof. Dr. Andres)
- 3. Tracks of the study program (6 CMS Track Coordinators)
- 4. Personal mentoring system (Prof. Dr. Andres)
- 5. Curricular module system (Prof. Dr. Andres)
- 6. Fast-track to PhD option, PhD programs (Prof. Dr. Andres)
- 7. Language Centre / Sprachzentrum (Prof. Dr. Andres)
- 8. Examination Office (Ms Kruse)
- 9. Complaints Office (Prof. Dr. Andres)
- 10. Core Values and Guiding Principles (Prof. Dr. Andres)
- 11. Student Representatives -iFSR (Mr Baitis)









Welcome and Opening Remarks



City of Dresden

- >500.000 inhabitants
- >200 bars and clubs in Neustadt alone
- Baroque old town
- Semper Opera
- Symphony hall
- 10 theaters
- 50 museums
- Botanical gardens
- Vibrant art scene
- Dozens of festivals throughout the year
- 1.5 hrs from Prague or Berlin





Surroundings of Dresden

- National park "Sächsische Schweiz"
- Local recreational area "Dresdner Heide"
- Nature reserve "Königsbrücker Heide"
- Many more parks, castles, etc.





Science in Dresden

- 3 Max Planck Institutes
- 11 Fraunhofer Institutes
- 4 Leibniz Institutes
- 2 Helmholtz Centers
- TU Dresden (32'000 students, 126 programs, super-computer, library with >9M volumes)
- HTW Dresden
- School of Arts
- High-tech companies, including Global Foundries, Bosch, Siemens, Infineon, SAP and Zeiss





Computational Modeling and Simulation: Class of 2024

- 766 applications (source: CMS Admin)
- 270 students admitted (source: CMS Admin)
- 124 students enrolled (on 30 September)



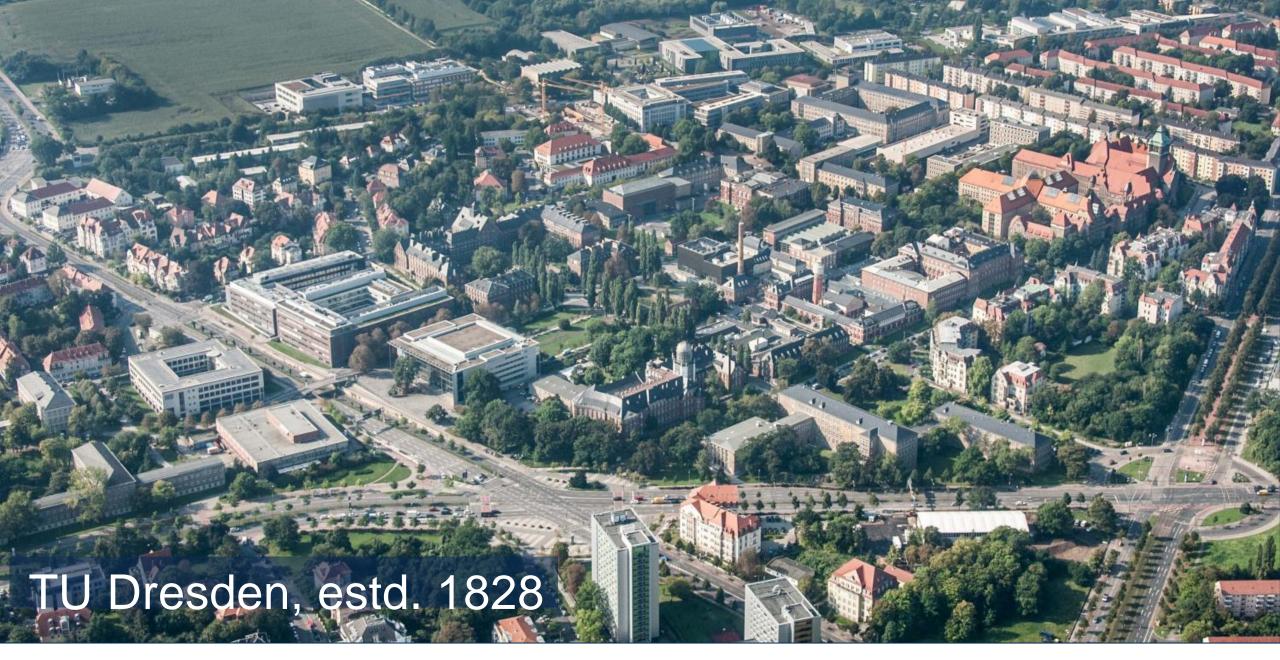








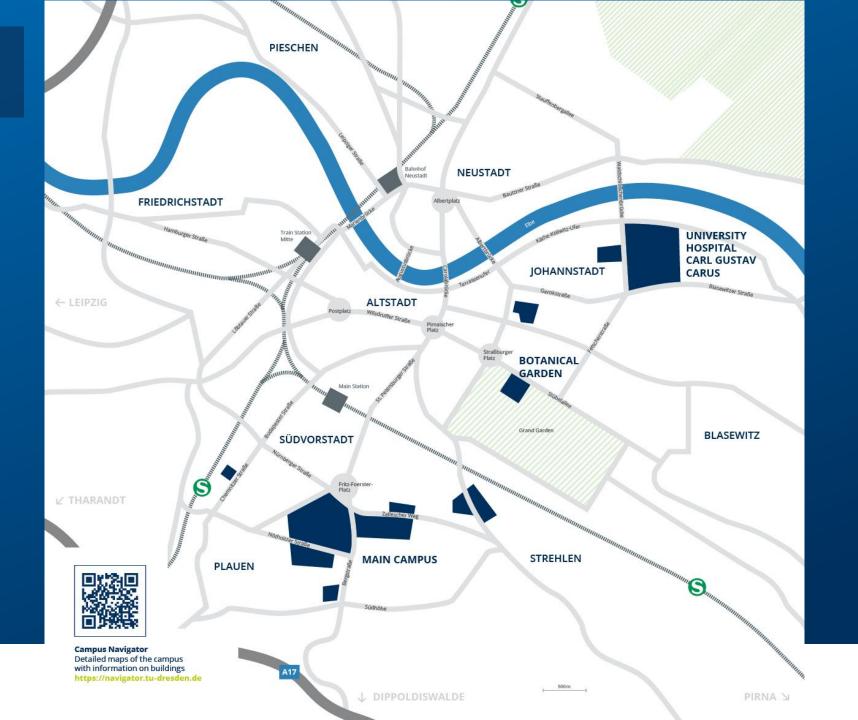
TU Dresden and the Faculties involved





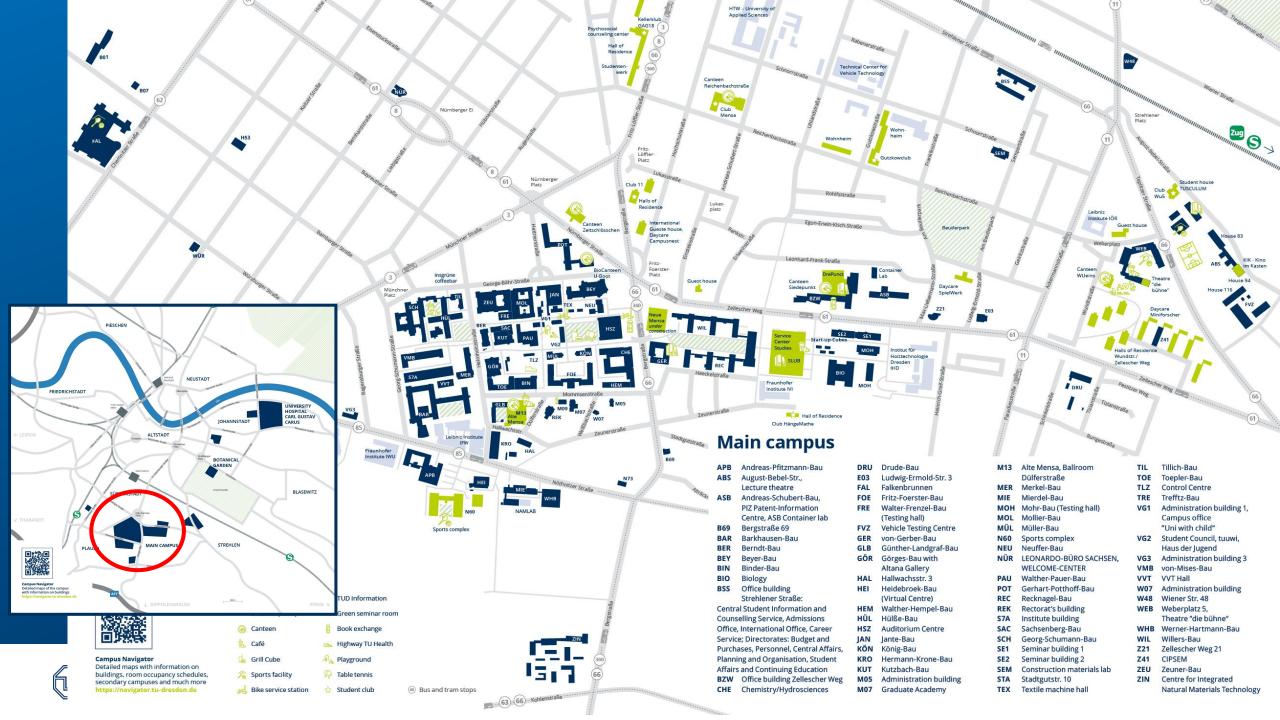


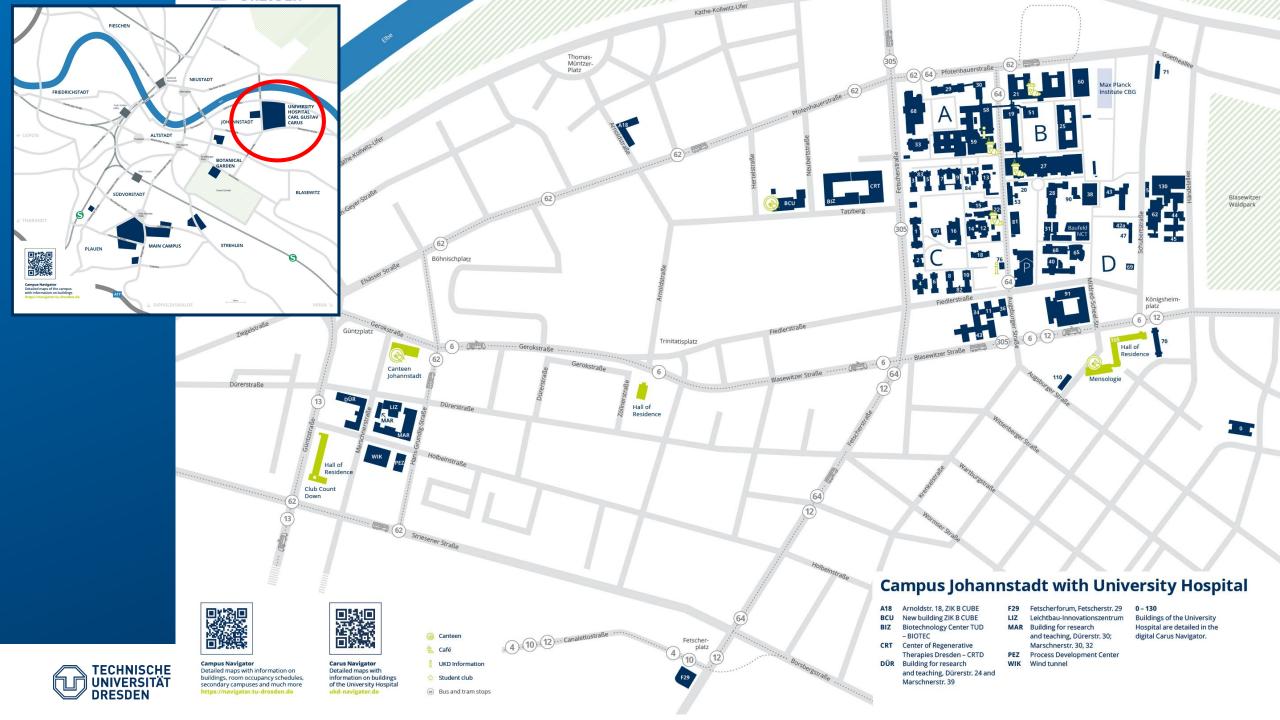
Campus











TU Dresden in the Rankings

2017/18: rank 6

• QS, THE rank: <200 (CS < 100)

• DFG ranking: 6 (CS: 1)

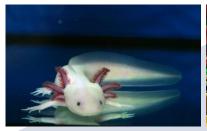
2012: rank 13

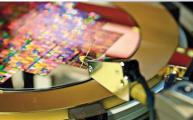
2007: rank 18

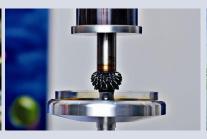
2004: rank 20

2001: rank 24

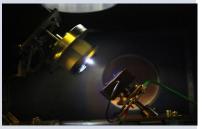
1995: rank 35















Excellence University since 2012

1st round





2nd round



3rd round













Dresden Concept: 12,500 scientists







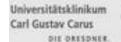


















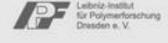
























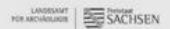


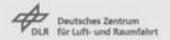
















Local Research Centers in CMS









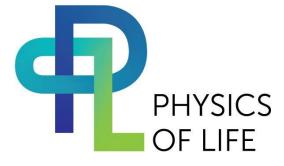






























- Institute of Applied Computer Science
- Institute of Artificial Intelligence
- Institute of Software and Multimedia Technology
- Institute of Systems Architecture
- Institute of Computer Engineering
- Institute of Theoretical Computer Science
- Center for Systems Biology

Coordinating faculty
Examination Office
Track "Visual Computing"
Track "Computational Life Science"
Track "Logical Modeling"









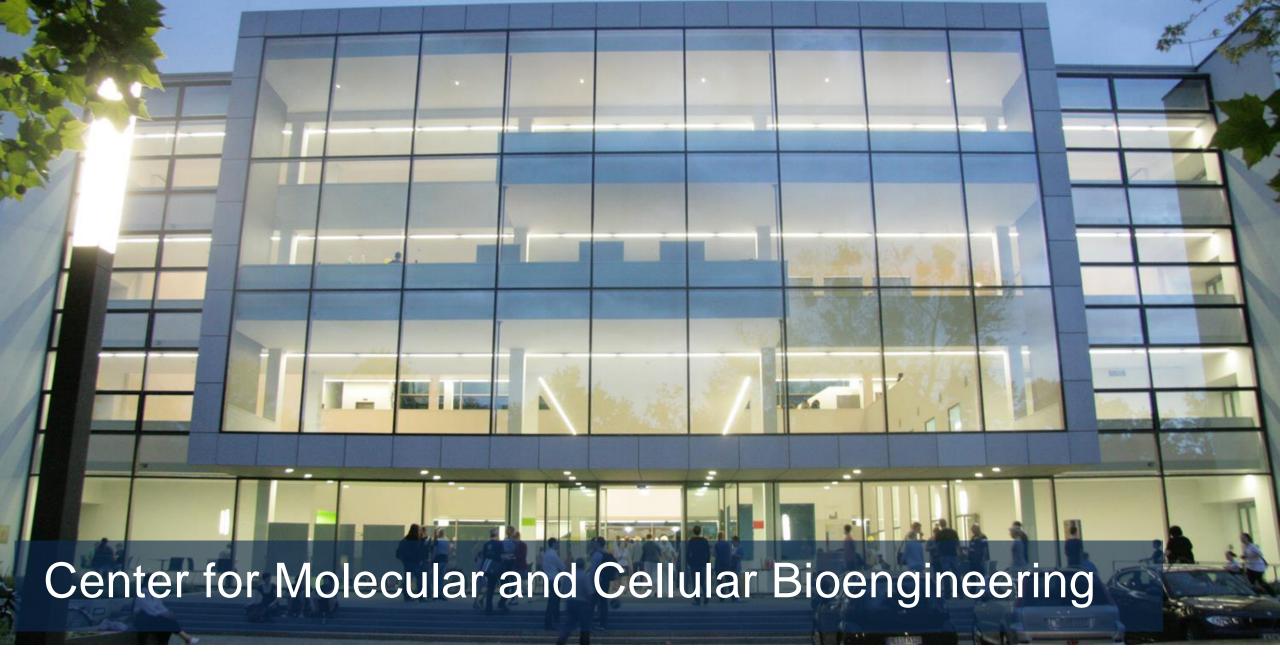


- Institute of Algebra
- Institute of Analysis
- Institute of Geometry
- Institute of Mathematical Stochastics
- Institute of Numerical Mathematics
- Institute of Scientific Computing
- Center for Dynamics

Curricular Planning Office Track "Computational Mathematics"









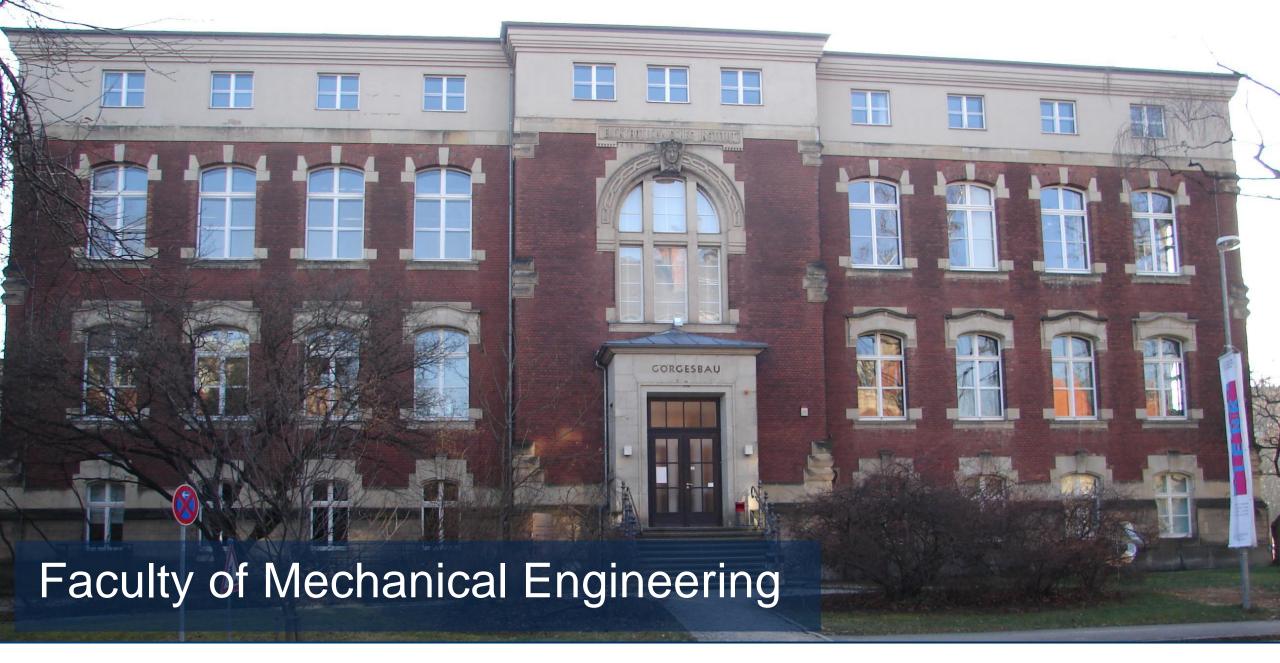


- Biotechnology Center BIOTEC
- Center for Regenerative Therapies CRTD
- Center for Molecular Bioengineering B-CUBE

Lectures in "Computational Life Science"











- Institutes Institute of Aerospace Engineering
 - Institute of Fluid Mechanics
 - Institute of Lightweight Engineering and Polymer Technology
 - Institute of Machine Elements and Machine Design
 - Institute of Manufacturing Science and Engineering
 - Institute of Material Handling and Industrial Engineering
 - Institute of Materials Science
 - Institute of Mechatronic Engineering
 - Institute of Natural Materials Technology
 - Institute of Power Engineering
 - Institute of Process Engineering and Environmental Technology
 - Institute of Solid Mechanics
 - Institute of Textile Machinery and High-Performance Material Technology





Track "Computational

Engineering"







Chairs

- Auditing and Taxation
- Business Education and Management Training
- Energy Economics
- Entrepreneurship and Innovation
- Environmental Management
- Finance and Financial Services
- Management Accounting and Control
- Industrial Management

- Logistics
- Marketing
- Organization
- Strategic Management
- Knowledge and Technology Transfer

Track "Computational Modeling in Energy Economics"











- Institute of Anatomy
- Institute of History of Medicine
- Institute of Immunology
- Institute of Clinical Genetics
- Institute of Clinical Pharmacology
- Institute of Medical Informatics and Biometry
- Institute of Medical Microbiology and Hygiene
- Institute of Pharmacology and Toxicology
- Institute of Physiology
- Institute of Physiological Chemistry
- Institute of Pathology
- Institute of Virology
- Institute of Occupational and Social Medicine

Lectures in "Computational Life Science"











- Institute of General Psychology, Biopsychology, and Methods of Psychology
- Institute of Clinical Psychology and Psychotherapy
- Institute of Labor, Organizational, and Social Psychology
- Institute of Developmental Psychology and Pedagogics
- Chair of Transportation Psychology

Lectures in "Computational Life Science"



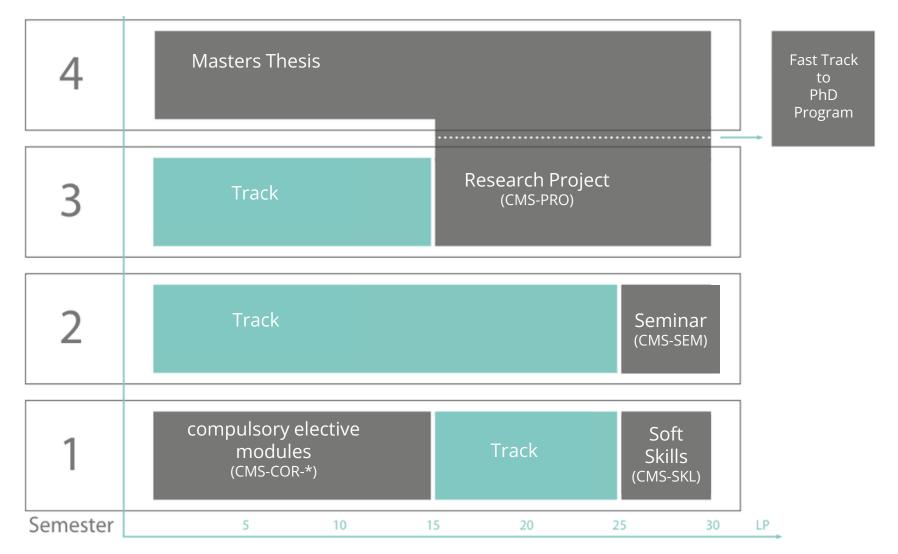






Presentation of Study Tracks

Program Structure









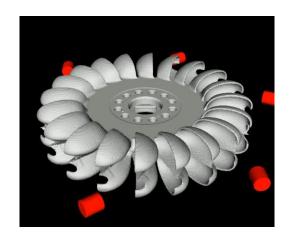


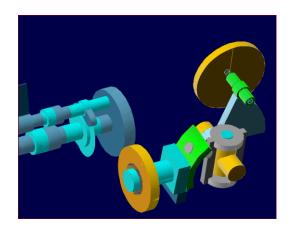
At a glance Computational Engineering

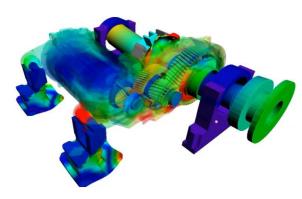
Prof. Michael Beitelschmidt – CMS-CE Coordinator Dresden, 04.10.2024

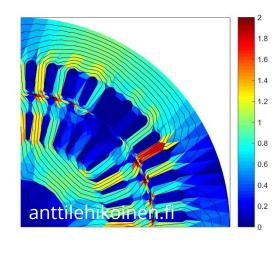
Computational Engineering

Modeling and simulation is state-of-the-art in modern engineering









Computational Fluid Dynamics (CFD)

Multi-Body Dynamics (MBD)

Finite Element Method (FEM), Structural

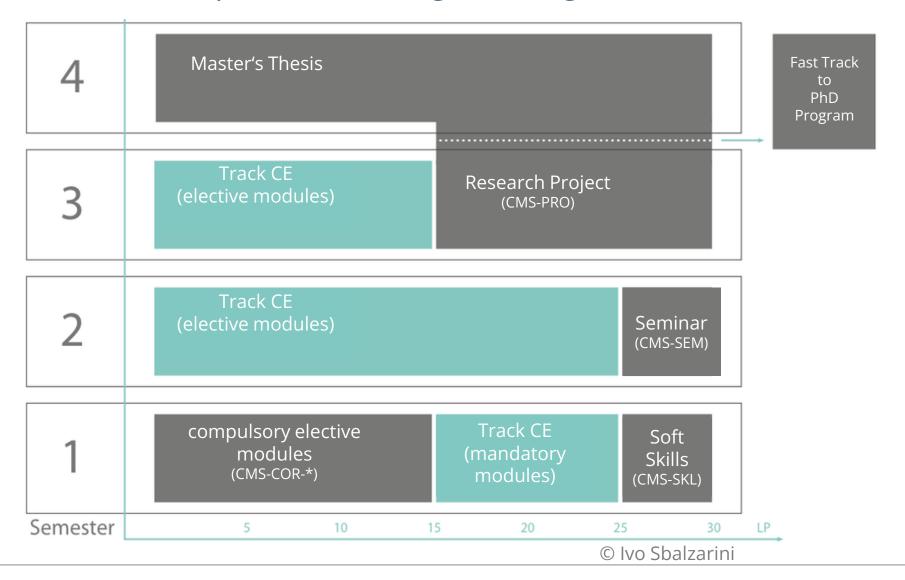
Finite Element Method (FEM), Electromagnetical

... and many other disciplines





Track Computational Engineering







Track Computational Engineering

Semester 1

Please note the recommendations and comments in the example study paths!

Finite Element Methods

Computaional Fluid Dynamics

compulsory elective modules Choose 3 from 10 (CMS-COR-*)

Soft Skills (CMS-SLK)

Statistical Principles and Experimental Design

Basic Numerical Methods

Scientific Software Engineering

Machine Learning and Data Mining

Stochastics and Probability

Parallel Programming and High-Performance Computing

Foundations of Artificial Intelligence

Data Visualization

Database Management

Knowledge Models





Track Computational Engineering

Semester 2 & 3

Advanced Topics in FE Analysis

Multifield Problems Multibody Dynamics Computational Engineering Basics

Computational Engineering Advanced

Seminar

Research Project



Choice from catalog
See recomendations in
example.study.goths





Track Coordinator

Prof. Dr. Michael Beitelschmidt

Chair for Dynamics and Mechanism Design Faculty of Mechanical Engineering

Important reminder:
All Computational Engineering students are invited:
Tuesday, October, 15th at 04:40 pm
Room ZEU 247

- More details about curriculum
- Electives catalogue
- Mentoring, introduction of mentors
- Q&A







Mentoring System

Mentors









Prof. Dr.-Ing. Jochen Fröhlich

Chair of Fluid Mechanics

Prof. Dr.-Ing. Markus Kästner

Chair of Computational and Experimental Solid Mechanics

Prof. Dr.-Ing. Thomas Wallmersperger

Chair of Mechanics of Multifunctional Structures

Prof. Dr.-Ing. Michael Beitelschmidt

Chair of Dynamics and Mechanism Design









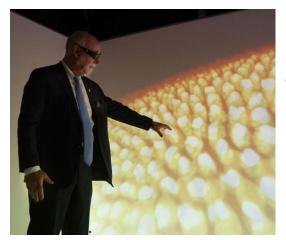
Computational Modeling and Simulation

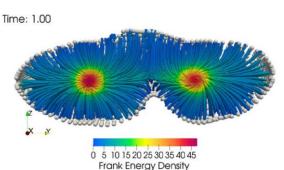
At a glance Computational Life Sciences

- Dr. Nandu Gopan on behalf of
- Prof. Ivo Sbalzarini CMS-CLS Coordinator

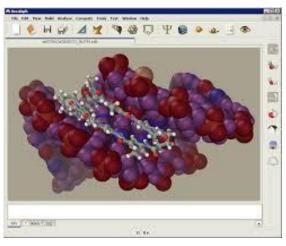
Why Computational Life Sciences track?

"Computer science is for today's life sciences what mathematics is for physics." Modeling and simulation define the future of medicine and biology.









Biomedical Image Analysis and Visualization

Simulations of Biological Systems

Virtual Surgery/
Personalized Medicine

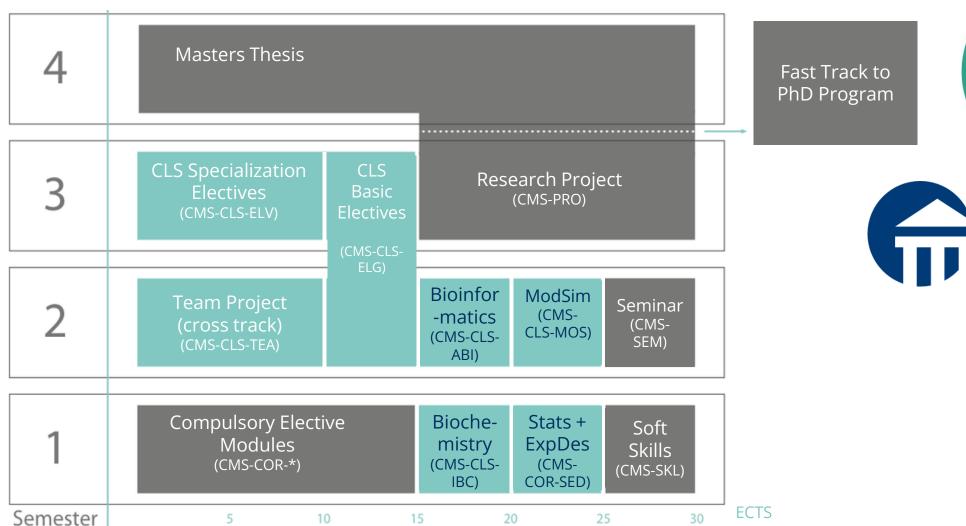
Bioinformatics and Molecular Modeling

... and many other, like: Computational Neuroscience, Augmented Reality for Medicine, Drug Discovery,





The Track: Computational Life Sciences













Track Mentors

+colleagues from:
Psychology
Medicine
Biology
MPI-CBG
CSBD



Prof. Ingo Roeder

Medical Biometry and Statistics

Faculty of Medicine



Prof. Ivo Sbalzarini

Scientific Computing for Systems Biology

Computer Science Center for Systems Biology Dresden



Prof. Michael Schroeder

Bioinformatics

BIOTEC / CMCB
Computer Science



Prof. Ingmar Glauche

Medical Informatics and Biometrics

Faculty of Medicine





Questions?

Please feel free to mail:

nandu.gopan@tudresden.de

Dr. Nandu Gopan, CSBD, Pfotenhauerstrasse 108, 01307 Dresden











Computational Modeling and Simulation

At a glance Computational Mathematics

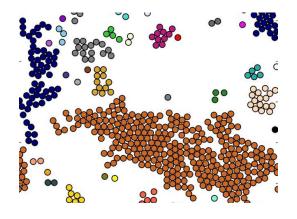
• Prof. Axel Voigt- CMS-CMA Coordinator

Computational Mathematics

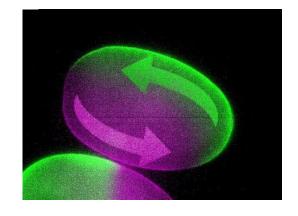
Modeling and simulation next to experiments and theory



Algorithms for High Performance Computing



Simulations in Materials
Science



Simulations in Biology and Biophysics

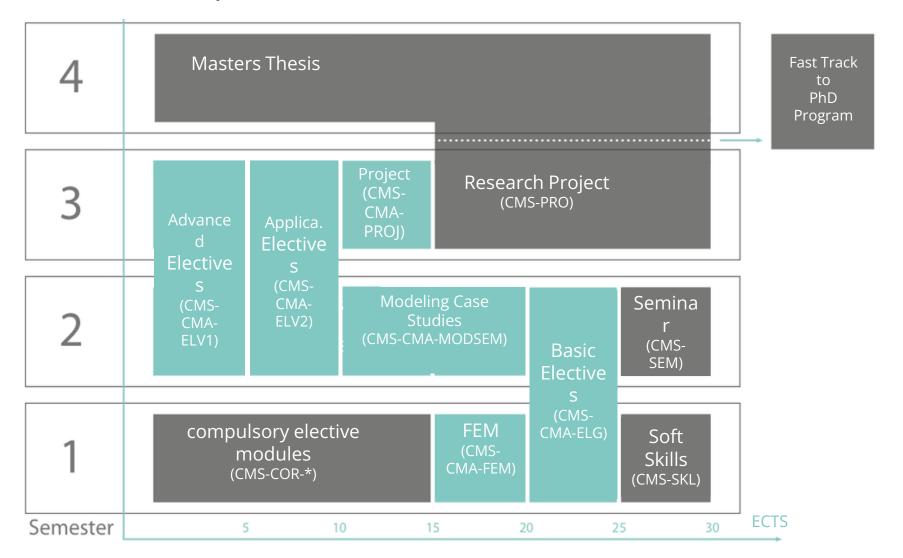


Computational Architecture and Design





Track Computational Mathematics















Track Computational Mathematics

Semester 1

Electives Basics Part 1



choice from catalog

Numerik of Partial Differential Equations, Prof. Matthies

Advanced Concepts of Object-Oriented Computer Languages, Prof. Walter

Computational Fluid Dynamics, Prof. Fröhlich

Introduction to Mathematical Biology, Prof. Deutsch

Biophysical Methods, Prof. Schlierf







Track Mentors



Prof. Dr. Axel Voigt
Chair of Scientific Computing and
Applied Mathematics
Faculty of Mathematics
Center for Systems Biology Dresden



Prof. Dr. Oliver Sander
Chair of Numerics for Partial Differential
Equations
Faculty of Mathematics









Computational Modeling and Simulation

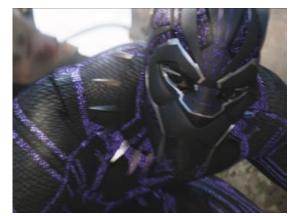
At a glance Visual Computing

• CMS-VC Coordinator: Prof. Stefan Gumhold

• Dresden, 04.10.2024

Visual Computing

Modeling and simulation enables Visual Computing applications that change the world



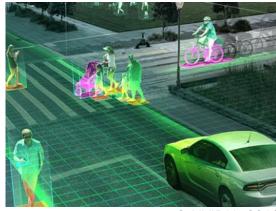
© Marvel Studios, 2018

what the climber would have seen

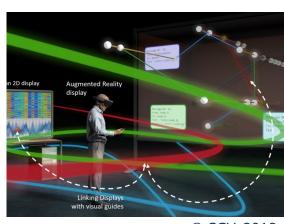
who bystander

virtual mountain environment

© DFKI, 2018



© NVIDIA, 2018



© CGV, 2018

SFX in Movies

VR-based Training

Autonomous Driving

Immersive Visual Analytics

... future systems need to combine techniques from computer vision, computer graphics, interaction design, and machine learning



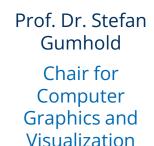


Track Mentors

&

Contributers





Faculty of Computer Science



Prof. Dr. Raimund
Dachselt
Chair of
Multimedia
Technology, and
Head of
Interactive Media
Lab Dresden

Faculty of

Computer

Science



Prof. Dr. Björn
Andres
Chair for
Machine
Learning for
Computer Vision





Jun.-Prof. Dr.
Matthew McGinity

Junior
Professorship in
Immersive Media,
and
Head of Immersive
Experience Lab

Faculty of
Computer

Science



Prof. Dr.
Stefanie Speidel
Department for
Translational
Surgical
Oncology





Prof. Dr. Roberto
Calandra
Chair for
Explainable
Artificial
Intelligence
Learning, Adaptive
Systems & Robotics

Faculty of Computer Science

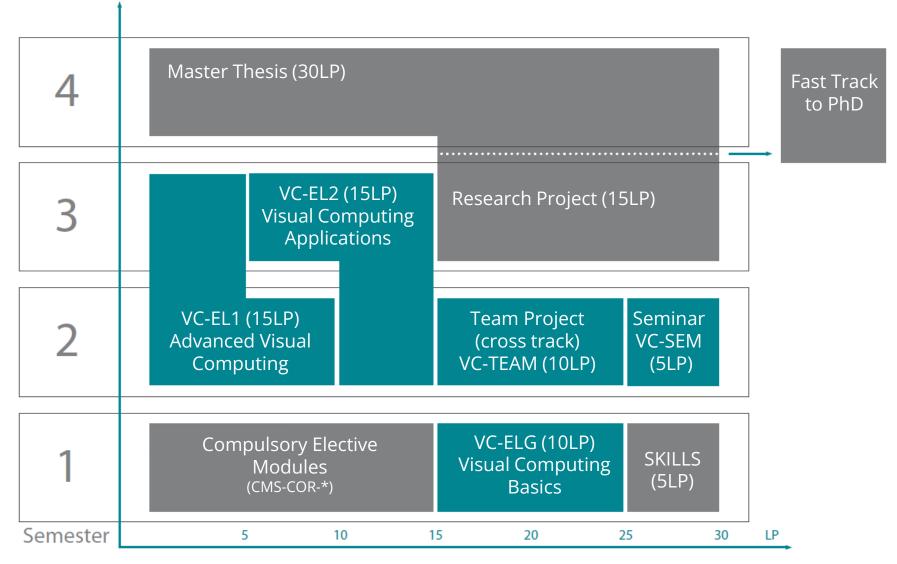


CS Math Medicine Biology MPI-CBG CSBD





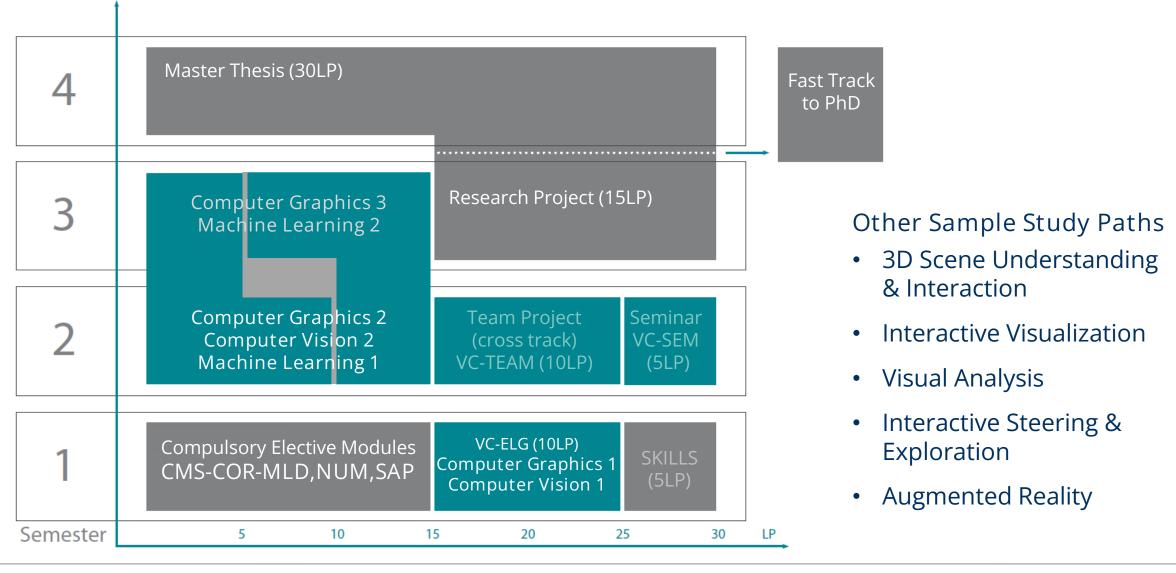
Track Visual Computing







Sample Study Path - Image Synthesis & Understanding











Computational Modeling and Simulation

At a glance Computational Modeling in Energy Economics

Prof. Dominik Möst – CMS-EE Coordinator

What makes us special?

Systemic aspects of energy supply Applied energy economics and techno-economic analysis of energy systems

1. Development of models and other methodic approaches to support decision-making in the energy sector

Application on various levels

- 2. Power plant dispatch & evaluation / integration of RES
- 3. Transmission & distribution networks, congestion mgmt.& nodal pricing
- 4. National / inter-national energy systems and markets / market coupling

5. Political / regulatory issues market design, business models





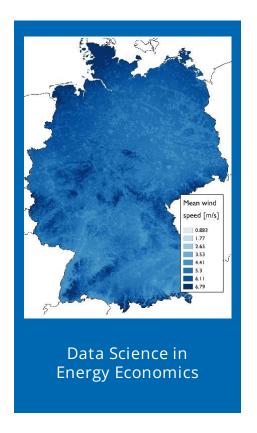
National / international research projects

- H₂-Ready
- MINFRA
- VerSEAS
- DigiTechNetz
- EffiziEntEE





Computational Modeling in Energy Economics





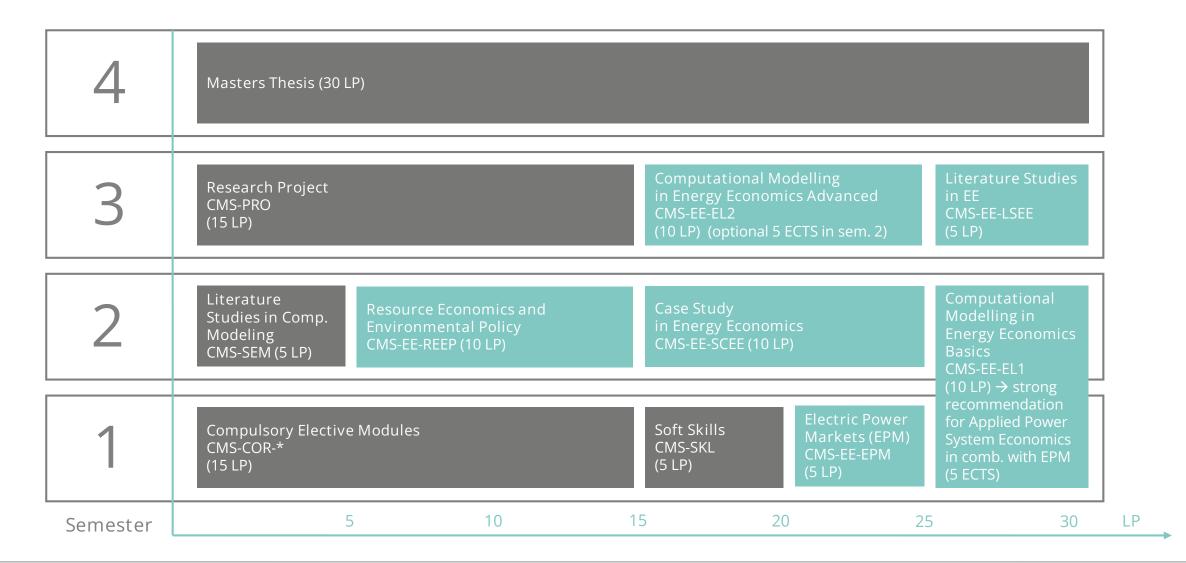








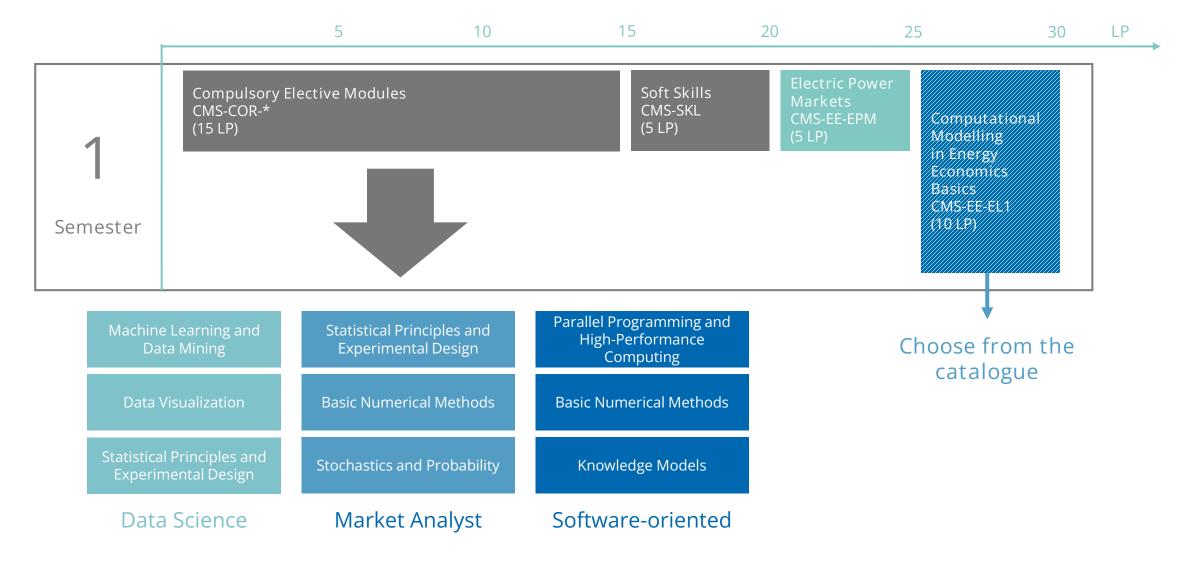
Track Computational Modeling in Energy Economics







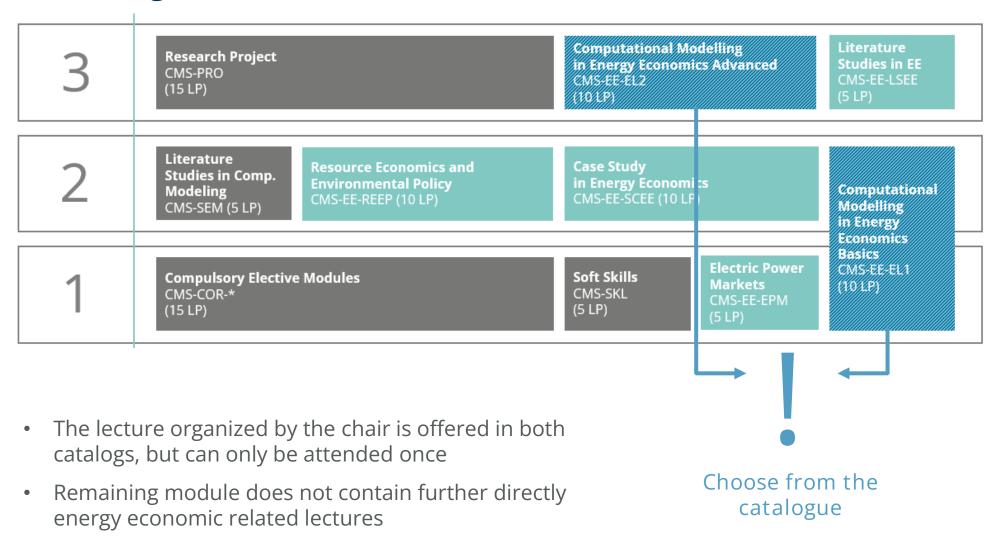
First Semester







Following Semesters







Track Mentor



Prof. Dr. Dominik Möst
Chair of Energy Econmics
Faculty of Business and Economics

Do you have any questions?

dominik.moest@tu-dresden.de

Or just visit us on

www.ee2.biz

or in person

at SCH A410









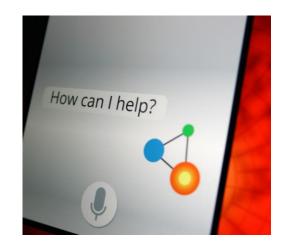
Computational Modeling and Simulation

At a glance Logical Modeling

• Prof. Markus Krötzsch – CMS-LM Coordinator

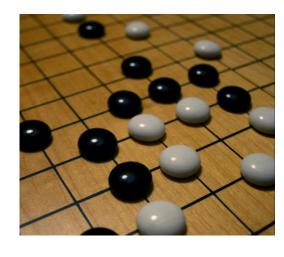
Logical Modeling

Logical Modeling is a cornerstone of artificially intelligent systems









Intelligent Agents

Formal Analysis

Knowledge Graphs

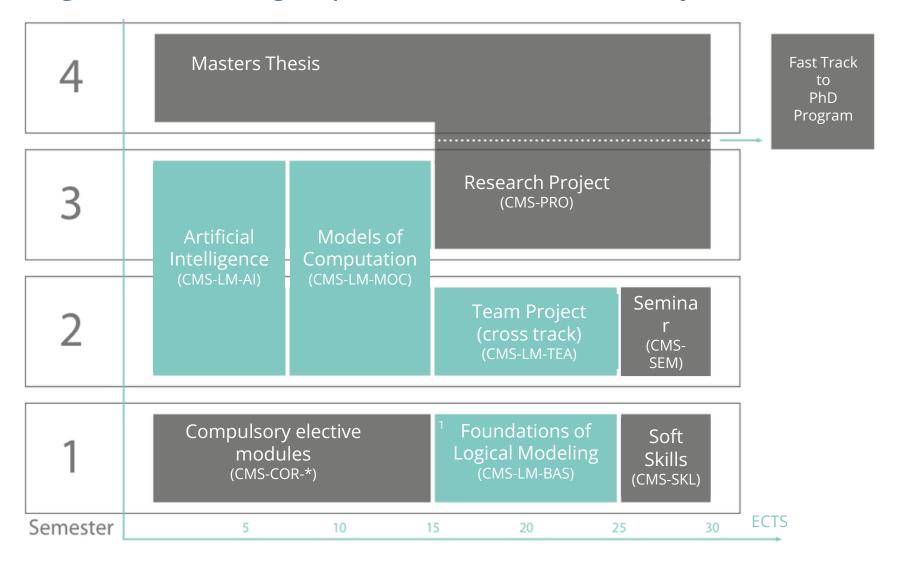
Problem Solving

... and many others, such as data analysis, logic programming, Semantic Web, dependable systems, planning and optimisation, ...





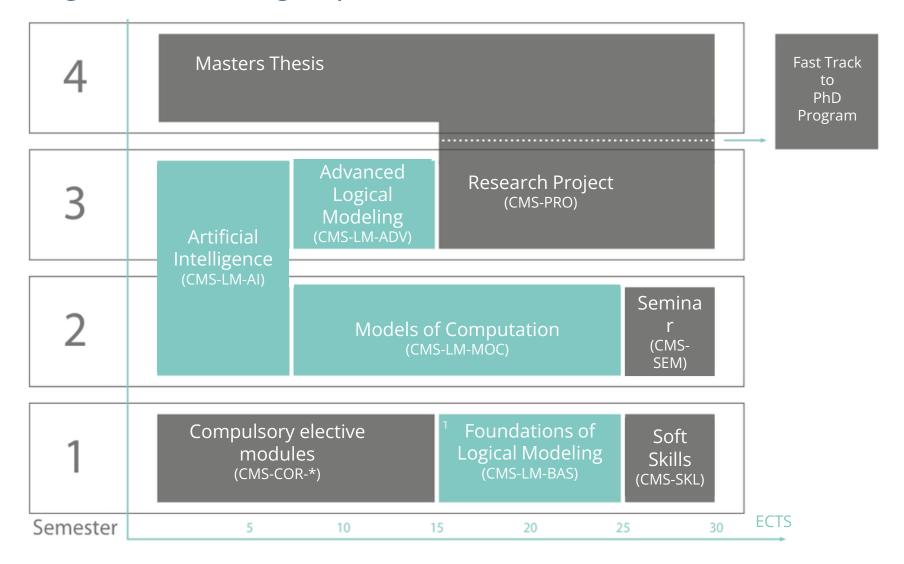
Track Logical Modeling: Option 1 with Team Project







Track Logical Modeling: Option 2 with Advanced Courses







Track Logical Modeling

Semester 1

Please note the recommendations and comments in the example study paths!

Foundations of Logical Modeling (CMS-LM-BAS)

Found. of Knowledge Representation Found. of Logic Programming Tutorial Logic Programming

Soft Skills (CMS-SLK)

Compulsory elective modules
Choose 3 out of 6
(CMS-COR-*)

Foundations of Artificial Intelligence

Knowledge Models

Machine Learning and Data Mining

Stochastics and Probability

Data Visualization

Database Management





Track Logical Modeling

Semesters 2 & 3

Artificial Intelligence

Models of Computation

Seminar (cross track) Research Project Team project (cross track)

Advanced Logical Modeling







Track Mentors and Closely Affiliated Professors



Franz Baader Automata Theory



Christel Baier
Verification and
Formal Quantitative
Analysis



Sebastian Rudolph Computational Logic



Björn Andres Machine Learning for Computer Vision



Markus Krötzsch Knowledge-Based Systems









Computational Modeling and Simulation

Personal Mentoring System

Personal Mentoring System

- Every student has been assigned a mentoring professor at the time of admission
- Typical reasons for contacting your mentor:
 - Lecture selection and study planning (esp. in the beginning!)
 - Identification of suitable institutions of TU Dresden specific requests
 - Help when looking for research projects, thesis topics, etc.
 - Career advice









Computational Modeling and Simulation

Curricular Module System

Curricular Module System

- There are modules and courses. They are not the same.
- Modules define learning goals. Different combinations of (one or more) courses may allow you to reach these goals. Talk to your mentor!
- You need to register first for modules, then for courses suitable for these modules.
- Exams are for modules. Failed module examinations can be repeated twice. Completed module examinations cannot be repeated.
- Modules are worth between 5 and 15 ECTS credits.
- Module descriptions define modalities.





Study Schedule: Which modules to take when?

Module No.	Na dula Nama	First semester	Second semester	Third semester (M)	Fourth semester	C	Total
	Module Name	L/P/S/T/PW/I/LC L/P/S/T/PW/I/LC		L/P/S/T/PW/I/LC		Cred.	Cred.
Compulsory Modules of Basic Education							25
CMS-SKL	Soft Skills	2/0/0/0/0/0/2 2GW				5	
CMS-PRO	Research Project			0/0/0/0/12/0/0 2GW		15	
CMS-SEM	Literature Studies in Computational Modeling		0/0/4/0/0/0/0 GW*			5	
Elective Compulsory Modules of the Basic Education (3 of 10, for the track "Computational Life Science" 3 of 9)							15
CMS-COR-MLD	Machine Learning and Data Mining	2/2/0/0/0/0/0 GW				5	
CMS-COR-HPC	Parallel Programming and High-Performance Computing	2/2/0/0/0/0/0 GW				5	
CMS-COR-NUM	Basic Numerical Methods	2/2/0/0/0/0/0 GW				5	
CMS-COR-SAP	Stochastics and Probability	2/1/0/1/0/0/0 GW				5	
CMS-COR-VIZ	Data Visualization	2/2/0/0/0/0/0 GW				5	
CMS-COR-SED	Statistical Principles and Experimental Design (not selectable for the Track CLS)	2/2/0/0/0/0/0 GW				5	





Study Schedule: Which modules to take when (for a specific track)?

Module No	Module Name	First semester	Second semester	Third semester (M))	Fourth semester	Cred.	Total
		L/P/S/T/PW/I/LC	L/P/S/T/PW/I/LC	L/P/S/T/PW/I/LC			Cred.
Choice of a track from six options							
Computational Life Science							50
CMS-CLS-IBC	Introduction to Biochemistry	2/0/0/0/0/2/0 GW				5	
CMS-COR-SED	Statistical Principles and Experimental Design	2/2/0/0/0/0/0 GW				5	
CMS-CLS-ELG	Computational Life Science Basic		4 HPW* GW*	4 HPW* GW*		10	
CMS-CLS-ABI	Applied Bioinformatics		2/2/0/0/0/0/0 GW			5	
CMS-CLS-MOS	Modeling and Simulation in Biology		2/2/0/0/0/0/0 GW			5	
CMS-COR-TEA	Computational Life Science Teamproject		0/0/0/0/8/0/0 2GW			10	
CMS-CLS-ELV	Computational Life Science Advanced			8 HPW* GW*		10	





Module Description: How many hours are required for the module? What does the exam look like? When is it offered? How is the grade averaged?

Module Number	Module Name	Responsible Lecturer				
CMS-PRO	Research Project	Prof. Dr. Björn Andres bjoern.andres@tu-dresden.de				
Qualification Objectives	knowledge in an independ a problem and divide it into They can communicate at when necessary. They are p modelling, in particular th	practical application and transfer of acquired ent scientific project. They are able to identify o steps that can be worked on independently. Utonomously about the project and find help proficient in the scientific methods of computer the design, implementation and validation of they are able to translate these simulations into olem.				
Content	The module includes a computer-aided modelling or simulation project a topic of the student's choice in Computational Life Science Computational Mathematics, Visual Computing, Computational Model in Energy Economics, Computational Engineering and Logical Model					





Course Catalogue: Which courses to choose from in a module? New: Courses are only announced here:

https://wwwdek.inf.tu-dresden.de/mole-web/catalogs/wise2425/program/cms_master_2020/courses/en

Citio CES EEG Compatational	l Life Science	Basics	Modulveran	ıtwortlicher l	Dozent:		Prof. Dr. Ivo F. Sbalzarini			M1107-CMS21	
Katalogmodul (Soll: 8 SWS)											
Eine Lehrveranstaltung des K	Katalogs CMS-	CLS-ELG kann nicht gewählt we	rden, wenn dies	se bereits in	einem andere	en Pflichtmodul mit wahl	pflichtigem Inhalt bzw. in einem Wahlp	flichtmodul dei	r Grundlagenausbild	dung im	
Masterstudiengang Computa	ational Model	ing and Simulation gewählt wui	de.								
		ue CMS-CLS-ELG cannot be sele									
Die Modulnote ergibt sich au course effort (SWS, semester			gewichteten Du	irchschnitt d	er Noten der	Prüfungsleistungen. The	module grade is the average of the gra	des of the indiv	vidual examinations	, weighted by	
LV-Name/course title	Fakultät/ faculty	Dozent/lecturer	SWS effort	Sprache/ Language	Semester	Prüfer/examiner	Prüfungart examination performance	Duration	Wichtung nach SWS/ Weighting	Kursnummer selma	Bemerkunge
Biophysical Chemistry	СМСВ	Elisabeth Fischer-Friedrich	2V	englisch	Winter	Fischer-Friedrich	Klausurarbeit	90 min	2	K1112-5NB11aV	
Biophysical Methods	СМСВ	Michael Schlierf	2V/2S	englisch	Winter	Schlierf	Referat	?	4	K1112-5NB23	
Dynamics of Protein Networks	СМСВ	Simon Alberti	2V	englisch	Sommer	Simon Alberti	Referat	30 min	2	K1112-5MB22V	
Genome Engineering	СМСВ	Francis Stowart		lisch	Sommer	Stewart	Referat	30 min	2	K1112-5NBE2bV	
Introduction to Proteomics	СМСВ	Watch sen	aactar		Winter	Simon Alberti	Klausurarbeit/mündl. Prüfung <= 15 Te	ilnehmer	3	K1112-5MB23V	
Principles of Biophysics	СМСВ	vvaten sen	nester		Winter	Schlierf	Klausurarbeit	90 min	4	K1112-5MB15b	
Theoretical Biophysics	СМСВ	Frank Jülicher	27710	glisch	Sommer	Grill	mündl. PL	20 min	3	K1112-5NB24	
Advanced User Interfaces	INF	Raimund Dachselt Anke Lehmann	2V/2Ü	deutsch/e nglisch	Sommer	Raimund Dachselt Anke Lehmann	Klausurarbeit	90 min	4	K1104-MA0001	
Basic Numerical Methods	INF	Ivo Sbalzarini	2V/2Ü	englisch	Winter	Sbalzarini	Klausurarbeit 90 min/mündl. PL 30	min < 10 Tn	4	K1107-MA0017	
Computer Vision 1	INF	Björn Andres	2V/2Ü	englisch	Winter	Björn Andres	mündl. PL	30 min	4	K1107-MA0009	
Computer Vision 2	INF	Björn Andres	2V/2Ü	englisch	Sommer	Björn Andres	mündl. PL	30 min	4	K1107-MA0016	
Computergraphik 1	INF	Stefan Gumhold	γÜ	deutsch/e nglisch	Winter	Gumhold	Klausurarbeit 90 min/mündl. PL 20 mir	ı <=15 Tn	4	K1104-MA0025	
Computergraphik 2				englisch	Sommer	Gumhold	Klausurarbeit 90 min/mündl. PL 20 mir	ا <=15 Tn	4	K1104-MA0005	
Transactional Information Systems	Wa	atch languag	e	englisch	Winter	Wolfgang Lehner Dirk Habich	Klausurarbeit 90 min/mündl. PL 30	min < 10 Tn	4	K1106-MA0020	
Data Visualization	INF	Stefan Gumhold	2Ü	deutsch/e nglisch	Winter	DachseltGumhold	Klausurarbeit 90 min/mündl. PL 30	min < 10 Tn	4	K1104-CMS03	
Design Patterns and Frameworks	INF	Uwe Aßmann Sebastian Götz	2V/2Ü	englisch	Winter	Uwe Aßmann Sebastian Götz	Klausurarbeit 90 min/mündl. PL 15	min < 20 Tn	4	K1104-MA0020	
Digitization and Data Analytics:	INIE	Wolfgang Nagel	วงบวเว	onglisch	- Commor	Wolfgang Nagol	Klaucurarhoit	00 min	4	K1102 7IU02	NELLab 1 4





Computational Modeling and Simulation

Fast Track to PhD

Fast Track to PhD

- Opportunity in case you decide by the 3rd semester to continue graduate studies toward a PhD
- Procedure
 - Undergo the selection process of a doctoral program before the 4th semester
 - Join the group of your doctoral advisor in the beginning of the 4th semester as a (paid) doctoral student
 - Start working on your PhD project immediately
 - Write a Master's thesis as an integral part of your doctoral studies after 22 weeks
 - Write a dissertation typically after 3-4 years
 - Save ½ year overall





A Selection of Available PhD Programs



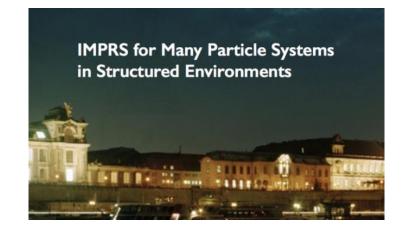






Dresden Center Computational Materials Science













Computational Modeling and Simulation

Language Course Offerings

TUDIAS



TU Dresden Foreign Language Courses





Languages on offer

Ancient Greek Arabic Chinese German

English Finnish French Italian

Japanese Latin Polish Portuguese

Russian Swedish Spanish Czech





TU Dresden Foreign Language Courses

TUDIAS is presented on the CMS-Webseite (see "study" language courses)

https://tu-dresden.de/ing/informatik/studium/studienangebot/master-studiengaenge/computational-modeling-and-simulation/Courses 1

Registration always with OPAL starting in April/October.

Winter term 24/25:

Registration starts on 1 October 2024

Classes begin on 21 October 2024.

Consider the dates for the levelling tests.

Explanatory video provides information about further registration formalities.

Contact: sprachen.zentrum@tu-dresden.de









Computational Modeling and Simulation

Examination Office

Kerstin Kruse

CMS exam office



The examination office is responsible for the administration of examinations.

Kerstin Kruse

Room: APB-3038; 01069 Dresden

Phone: +49 351 463 38378

Email: cms-examoffice@mailbox.tu-dresden.de

https://tu-dresden.de/ing/informatik/studium/studienangebot/masterstudiengaenge/computational-modeling-and-simulation









Computational Modeling and Simulation

Complaints Office





Anti-discrimination
Dealing with harrasment,
discrimination and
violence





Responsibility

Technische Universität Dresden is firmly committed to standing up to harassment, discrimination and violence. This commitment is anchored in its statutes and regulations as well as in corresponding framework plans and concepts. It encourages members or associates of TU Dresden to assume collective responsibility.

According to the <u>"Guideline for Dealing with Harassment, Discrimination and Violence"</u>, both employees and students can reports incidents of this kind and TU Dresden is obliged to investigate and prevent (repeated) discrimination.

In order to prevent incidents of harassment, discrimination and violence, TU Dresden offers regular training, education courses and information for students and staff.

TU Dresden participates in various action days, such as the International Day for the Elimination of Gender-Based Violence on November 25, with different measures to raise awareness.

For employees and students either affected or interested in discrimination prevention, there are a number of counselling services offered by various representatives and commissions incl. the Personnel Council, psychological counsellors, the queer peer counselling or the conflict mediators among others.





Complaints Office for Incidents of Harassment, Discrimination, Violence

The TU Dresden Complaints Office is the central point of contact for students, staff and other members of the university who experience or observe discrimination and have questions or need support on the topic of (anti-) discrimination.

The complaints office acts as a counselling, referral and specialist office. Its goal is to reduce discrimination not only on an individual, but also on a institutional and structural level. It is affiliated with the Vice-Rectorate University Culture.

Anyone can contact the complaints office also anonymously or get consultation in English.

Contact: Anja Wiede (cis-femal, white, abled-bodied)

♦ Mommsenstraße 13, Room 6-234, 01069 Dresden

L +49 351 463-33564

□ beschwerden-diskriminierung@tu-dresden.de

https://tu-dresden.de/tu-dresden/universitaetskultur/antidiskriminierung









Core Values and Guiding Principles





Please read them!

You subscribed to them with your registration

CORE VALUES AND HELP

Core Values and Guiding Principles

In accordance with the >Mission Statement of TU Dresden, the master's program "Computational Modeling and Simulation" stands for and maintains the following values and guiding principles.



The M.Sc. program "Computational Modeling and Simulation" embodies an interdisciplinary, cooperative, and inclusive spirit, built on the foundation of diversity. Its members and students value and foster diversity of nationalities, social backgrounds, geographic origins, ethnicities, scientific disciplines, gender, sexual orientation, age, beliefs, values, lifestyles, physical ability, opinions, perspectives, and thoughts. We strongly believe that diversity is a prerequisite for creativity in research and teaching, and we recognize its importance. We vouch for a family-friendly atmosphere of fairness, equality, and mutual respect in a diverse group of people.





A list of contacts for help and reporting

HelpLine Dresden



Contacts for Help and Reporting

- Your CMS mentor
- Ombudsperson of the Faculty of Computer Science (in particular for incidents of harassment): https://wwwtcs.inf.tu-dresden.de/~baier/
- Commissioner for students with disabilities or chronic illness: >https://tu-dresden.de/tu-dresden/organisation/gremien-und-beauftragte/beauftragte/bfsb
- Equal Opportunity Officer and Women's Representative: >https://tu-dresden.de/tu-dresden/organisation/gremien-und-beauftragte/gleichstellungs-und-frauenbeauftragte
- Confidential contact person for reporting and handling suspected scientific misconduct: >https://tu-dresden.de/tu-dresden/qualitaetsmanagement/gute-wissenschaftliche-praxis-an-der-tu-dresden/index?set_language=en#section-7
- We-Care Contact Point for international students who feel harassed, threatened, or discriminated against in any way: >https://tu-dresden.de/tudresden/internationales/we-care?set_language=en
- Office for Students with Children: → https://kinder.studentenwerk-dresden.de/
- Psycho-Social Counseling: https://www.studentenwerk-dresden.de/english/soziales/psychosoziale-beratung.html
- Staff Unit Diversity Management: >https://tu-dresden.de/tu-dresden/organisation/rektorat/prorektor-unientwicklung/stabsstelle-diversity-management/index?set_language=en
- Legal and Insurance Advise for Students / Law Counseling:
 https://www.studentenwerk-dresden.de/english/soziales/rechtsberatung.html
- Social Counseling for Students: → https://www.studentenwerk-dresden.de/english/soziales/sozialberatung.html
- Point of contact for complaints about harrassment, discrimination, and violence at TU Dresden
- >https://tu-dresden.de/tu-dresden/organisation/gremien-und-beauftragte/gleichstellungs-und-frauenbeauftragte/beschwerdestelle







Christoph Baitis
Fachschaftsrat Informatik

The iFSR - Your Student Representatives A brief Overview



What is the iFSR?









Services

We anwser questions about your studies and are your representatives

Online Services

- Website
 - FTP Server with former exams
 - programming courses
- Social Media
 - Information about current events

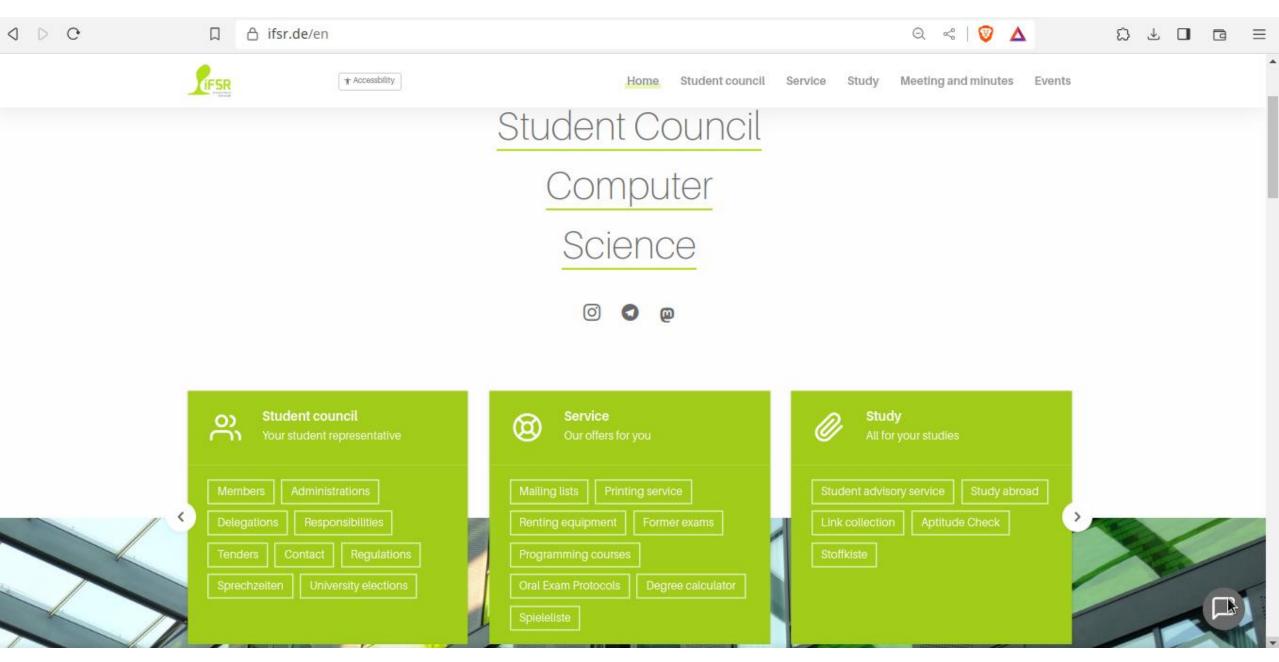
Office (APB E017)

- items that can be rented
- printing service













Events

- Weekly meeting in which the entire iFSR comes together
- Barbeques
- Game Nights in the Department
- First Semester Introduction week
- Supportive work for department events such as the long night of sciences and the university day

. . .







We want YOU!





