

TUM-IAS Focus Groups

Advanced Cardiac Mechanics Emulator

Prof. Michael Ortiz | California Institute of Technology
Host: Prof. Wolfgang A. Wall | Computational Mechanics, TUM
Doctoral candidate: Andreas Nagler

Advanced Computation

Prof. Matthew Campbell | University of Texas
Host: Prof. Kristina Shea | Product Development, TUM
Prof. Peter Schröder | California Institute of Technology
Host: Prof. Rüdiger Westermann | Computer Graphics and Visualization, TUM
Doctoral candidates: Jan Stühmer, Amir Hooshmand, Corinna Königseder

Advanced Construction Chemicals and Materials

Dr. Tsuyoshi Hirata | Nippon Shokubai, Ltd., Japan
Host: Prof. Johann Plank | Construction Chemicals, TUM
Doctoral candidate: Alex Lange

Advanced Stability Analysis

Prof. Raman I. Sujith | Indian Institute of Technology Madras
Host: Prof. Wolfgang Polifke | Thermodynamics, TUM
Doctoral candidates: Ralf Blumenthal, Sebastian Bomberg

Aircraft Stability and Control

Dr. Matthias Heller | CASSIDIAN Air Systems, EADS Deutschland GmbH
Host: Prof. Florian Holzapfel | Flight System Dynamics, TUM
Doctoral candidate: Markus Geiser

Biochemistry

Prof. Horst Kessler | Chemistry, TUM

Biomedical Engineering

Prof. Axel Haase | TUM
Host: Prof. Markus Schwaiger | Clinic for Nuclear Medicine, TUM
Prof. Walter Kucharczyk | University of Toronto
Host: Prof. Tim Lüth | Micro Technology and Medical Device Technology, TUM
Doctoral candidates: Thomas Gaaß, Marika Kuschan

Biophysics

Prof. Robijn Bruinsma | University of California, UCLA
Prof. Hendrik Dietz | TUM
Prof. David A. Weitz | Harvard University
Host: Prof. Andreas Bausch | Molecular and Cellular Biophysics, TUM
Doctoral candidates: Thomas Gerling, Heinrich Grabmayr

Clinical Cell Processing and Purification

Prof. Stanley Riddell | University of Seattle

Dr. Christian Stemberger | TUM

Host: Prof. Dirk Busch | Medical Microbiology, Immunology and Hygiene, TUM

Doctoral candidate: Jeannette Bet, Paulina Paszkiewicz

Postdoctoral researcher: Dr. Stefan Dreher

Cognitive Technology

Prof. Dongheui Lee | TUM

Dr. Alexandra Kirsch | TUM

Dr. Kolja Kühnlenz | TUM

Dr. Angelika Peer | TUM

Prof. Mandayam A. Srinivasan | MIT

Dr. Georg von Wichert | Siemens, Munich

Dr. Dirk Wollherr | TUM

Host: Prof. Martin Buss | Automatic Control Engineering, TUM;

Prof. Michael Beetz | Computer Science, TUM

Doctoral candidates: Barbara Gonsior, Michael Karg, Christina Lichtenthäler,

Andreas Schmid, Bernhard Weber, Liu Ziyuan

Computational Biology

Dr. Marco Punta | TUM

Host: Prof. Burkhard Rost | Bioinformatics, TUM

Computational Biomechanics

Prof. Zohar Yosibash | Ben-Gurion University, Israel

Host: Prof. Ernst Rank | Computation in Engineering, TUM

Doctoral candidate: Hagen Wille

C-H Activation Chemistry

Prof. Polly Arnold | University of Edinburgh

Host: Prof. Fritz Kühn | Molecular Catalysis, TUM

Fiber-Optic Communication and Information Theory

Prof. Frank Kschischang | University of Toronto

Host: Prof. Gerhard Kramer | Institute for Communications Engineering, TUM

Fundamental Physics

Dr. Martin Gorbahn | TUM

Prof. Gino Isidori | Frascati National Laboratories

Prof. Stefan Pokorski | University of Warsaw

Host: Prof. Andrzej Buras | Particle Physics, TUM

Doctoral candidate: Emmanuel Stamos

Postdoctoral researcher: Dr. Luca Merlo, Dr. Robert Ziegler

Global Change

Prof. Tim Sparks | Coventry University

Host: Prof. Annette Menzel | Ecoclimatology, TUM

Doctoral candidates: Anna Bock, Julia Laube
Postdoctoral researcher: Dr. Nicole Estrella, Dr. Christian Zang

High-Performance Computing (HPC)

Prof. Markus Hegland | Australian National University
Dr. Miriam Mehl | TUM
Host: Prof. Hans-Joachim Bungartz | Scientific Computing, TUM
Doctoral candidates: Christoph Kowitz, Valeriy Khakhutskyy

Metropolis Nonformal

Prof. Christian Werthmann | Harvard University
Host: Prof. Regine Keller | Landscape Architecture and Public Space, TUM

Molecular Imaging

Prof. Silvio Aime | University of Torino
Host: Prof. Markus Schwaiger | Clinic for Nuclear Medicine, TUM

Networked Dynamical Systems

Prof. Anuradha M. Annaswamy | MIT
Dr. Dragan Obradovic | Siemens, Munich
Host: Prof. Sandra Hirche | Automatic Control Engineering, TUM
Doctoral candidates: Arman Kiani, Herbert Mangesius, Harald Voit

Neuroscience

Prof. Thomas Misgeld | TUM
Prof. Bert Sakmann | MPI for Neurobiology, Martinsried
Host: Prof. Arthur Konnerth | Neuroscience, TUM
Doctoral candidate: Rita Förster

Satellite Geodesy

Prof. Gerhard Beutler | University of Bern
Prof. Adrian Jäggi | University of Bern
Host: Prof. Reiner Rummel | Astronomical and Physical Geodesy, TUM
Doctoral candidate: Weiyong Yi

Soil Architecture

Prof. Ingrid Kögel-Knabner | TUM
Postdoctoral researcher: Dr. Geertje Pronk

Statistical and Quantitative Genomics

Prof. Daniel Gianola | University of Wisconsin-Madison
Host: Prof. Chris-Carolin Schön | Plant Breeding, TUM

Risk Analysis

Engineering Risk Analysis

Dr. Chin Man W. Mok | AMEC Geomatrix, Inc., Oakland, California
Host: Prof. Daniel Straub | Engineering Risk Analysis, TUM
Doctoral candidate: Wolfgang Betz

Risk Analysis and Stochastic Modeling

Prof. Richard Davis | Columbia University

Prof. Robert Stelzer | TUM

Host: Prof. Claudia Klüppelberg | Mathematical Statistics, TUM

Doctoral candidates: Martin Moser, Oliver Pfaffel, Christina Steinkohl, Florian Ueltzhöfer

Energy and Electromobility

Diesel Reloaded

Prof. Gernot Spiegelberg | Siemens AG, Munich

Host: Prof. Alois Knoll | Robotics and Embedded Systems, TUM

Doctoral candidates: Claudia Buitkamp, Ljubo Mercep, Hauke Stähle

Molecular Aspects in Interface Science

Dr. Julia Kunze-Liebhäuser | TUM

Host: Prof. Ulrich Stimming | Interfaces and Energy Conversion, TUM

Doctoral candidates: Norbert Kluy, Celine Rüdiger, Christoph Traunsteiner

Nanoscience

Functional Nanosystems

Prof. Shuit-Tong Lee | City University of Hong Kong

Dr. Ian Sharp | TUM

Host: Prof. Martin Stutzmann | Experimental Semiconductor Physics, TUM

Doctoral candidates: Matthias Sachsenhauser

Nanoimprint and Nanotransfer

Prof. Khaled Karrai | Attocube Systems AG, Munich

Prof. Wolfgang Porod | University of Notre Dame

Host: Prof. Paolo Lugli | Nanoelectronics, TUM

Doctoral candidates: Edgar-Otto Albert, Mario Bareiß, Armin Exner, Qingqing Gong, Muhammad Imtaar, Klaus Thurner, Anandi Yadav

Nanophotonics

Prof. Yasuhiko Arakawa | University of Tokyo

Dr. Ulrich Rant | TUM

Host: Prof. Gerhard Abstreiter | Experimental Semiconductor Physics, TUM

Doctoral candidates: Matthias Firnkes, Stephan Funk, Markus Schuster, Alexander Schwemer, Thomas Zabel

Postdoctoral researcher: Dr. Ilaria Zardo

Nanoscale Control of Quantum Materials

Dr. Willi Auwärter | TUM

Prof. Douglas Bonn | University of British Columbia

Host: Prof. Johannes Barth | Molecular Nanoscience and Chemical Physics of Interfaces, TUM

Doctoral candidate: Wolfgang Krenner

Nonequilibrium Statistical Mechanics at the Nanoscale

Dr. Vladimir García Morales | TUM

Host: Prof. Katharina Krischer | Interfaces and Nonlinear Dynamics, TUM

Doctoral candidate: Lennart Schmidt