

Programme GSB Summer School 2019

Monday, the 1st of July 2019

10.30 h

Introduction GSB/GRK2274

Prof. Dr. Axel Haase, Prof. Dr. Katia Parodi

11.00 h

Robotic Imaging, Machine Learning and Augmented Reality for Computer Assisted Interventions

Prof. Dr. Nassir Navab

CAMP - Computer Aided Medical Procedures & Augmented Reality, TUM

<http://campar.in.tum.de/WebHome>

11.45 h

Innovative image-guidance solutions for ion beam therapy

Prof. Dr. Katia Parodi

Chair of Experimental Physics, Medical Physics, LMU

<https://www.med.physik.uni-muenchen.de/index.html>

13.00 h *Lunch*

14.30 h

Career planning in industry

Dr. Timo Schirmer

Manager, MR Applied Science Laboratory Europe GE Healthcare

<http://www.ge.com/research>

15.15 h

Quantitative multiparametric MRI – a rich picture

PD Dr. Marion Menzel

GE Healthcare

<http://www.ge.com/research>

16.00 h *Poster Session/Coffee*

17.30 h

The MADPET story: Physics, engineering, and computer science for improved molecular imaging

Prof. Dr. Sibylle Ziegler

Laboratory for Preclinical Imaging, Department of Nuclear Medicine

Klinikum der Universität München, LMU

http://www.klinikum.uni-muenchen.de/Klinik-und-Poliklinik-fuer-Nuklearmedizin/de/preclinical_imaging/index.html

18.15 h

Meet the Expert Session

(Informal opportunity to ask the speakers of the day all kinds of questions)

Tuesday, the 2nd of July 2019

9.00 h

Nuclear Theranostics

Prof. Dr. Wolfgang Weber

Nuklearmedizin, Klinikum rechts der Isar, TUM

<http://www.nuk.mri.tum.de/klinikleitung>

9.45 h

Computational models of cellular decision making

Dr. Carsten Marr

Group Leader Single Cell Dynamics, Deputy Head of Institute in the Institute of Computational Biology, Helmholtz-Zentrum München

<https://www.helmholtz-muenchen.de/icb/institute/staff/staff/ma/2485/Dr.-Marr/index.html>

10.15 h *Poster Session/Coffee*

12.00 h

Excursion to the company Brainlab

Wednesday, the 3rd of July 2019

9.00 h

Good Scientific Practice Course

13.00 h *Lunch*

14.30 h

Wave-Optical X-ray Imaging for Improved X-ray Diagnostics

Prof. Dr. Franz Pfeiffer

Munich School of BioEngineering, Chair of Biomedical Physics, TUM

<http://www.e17.ph.tum.de/en/home>

15.15 h

Quantitative magnetic resonance imaging and spectroscopy of lipids

Dominik Weidlich

Body Magnetic Resonance Research Group, Klinikum rechts der Isar, TUM

<http://bmrrgroup.de>

16.00 h *Coffee Break*

16.45 h

On vessels and networks

Prof. Dr. Björn Menze

Munich School of BioEngineering, Chair for Computer Aided Medical Procedures & Augmented Reality, TUM

<http://home.in.tum.de/~menze>

17.30 h

Computer Assisted Ophthalmic Interventions

Dr.-Ing. Ali Nasseri

Robotics and Embedded Systems, Augenklinik und Poliklinik, Klinikum rechts der Isar, TUM

<http://www.augenklinik.med.tum.de/node/215>

18.15 h

Digitalization of Orthopaedic Rehabilitation, from concept to realization

Dr. Alejandro Mendoza García

reFit Systems GmbH

<https://www.refit-systems.com>

19.00 h

Concluding Remarks/Poster Price