

GCB/GRK2274 VIRTUAL SUMMER SCHOOL

2021

September 27th-30th

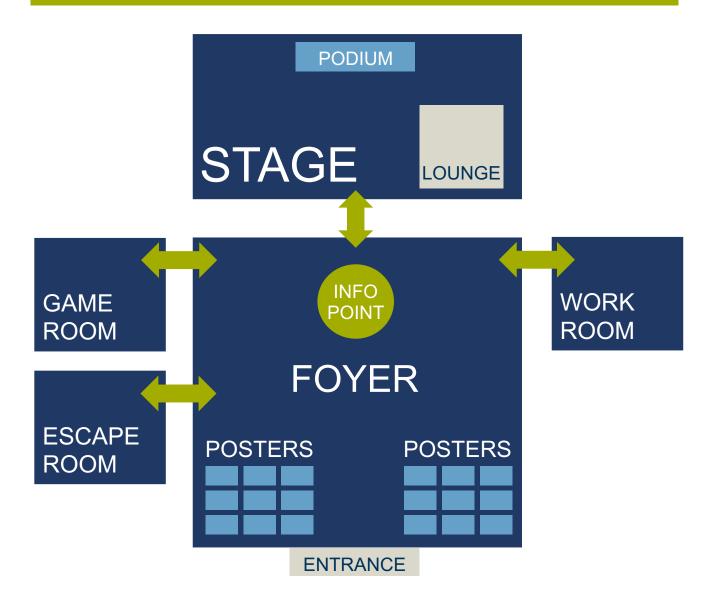




MAP EVENT SPACE

Event space: https://gather.town/app/TBqwklxadBfaPRja/gcbgrk2274summerschool21

Passcode: bioengineering



Please observe the following rules

- The use of the platform is intended for registered participants only. Please do not share the login information.
- · By entering the event space, you agree to not download any provided content nor to make recordings.
- Please remember that you are in a digital space on a video platform (data protection). Therefore, please be sensitive to your own and others' personal information.
- · Please be aware of respecting confidentiality at our summer school as you would in a non-virtual event.
- If you join gather.town their <u>privacy policies and regulations</u> apply. More information also in the <u>privacy policy of our summer school</u>.

SCHEDULE

Monday, 27 September 2021					
1:00 pm	1:00 pm EVENT SPACE OPEN				
1:30 - 1:45 pm	Guided Tour Eventspace	INFOPOINT			
1:45 - 2:00 pm	Welcome (Speakers GCB/GRK)	STAGE			
2:00 - 2:45 pm	Julia Schnabel (TUM, Helmholtz Zentrum)	STAGE			
2:45 - 3:00 pm	Break (15 min)				
3:00 - 4:00 pm	Marc Kachelrieß (DKFZ)	STAGE			
4:00 - 4:30 pm	Meet the Doctoral Representatives	LOUNGE			
4:30 pm	Virtual Escape Game	ESCAPE ROOM			
Tuesday, 28 September 2021					
12:30 - 1:30 pm	Anna Kreshuk (EMBL)	STAGE			
1:30 - 1:45 pm	Meet the Speaker: Anna Kreshuk	LOUNGE			
1:45 - 2:00 pm	Break (15 min)				
2:00 - 3:00 pm	Alena Buyx (TUM)	STAGE			
3:00 - 3:30 pm	Break (30 min)				
3:30 - 6:30 pm	Workshop Mental Health	WORK ROOM			
6:30 pm	Online Game Night	GAME ROOM			
Wednesday, 29 September 2021					
1:45 - 3:30 pm	Poster Session	FOYER			
3:30 - 4:30 pm	Pedro Gómez (Orbem)	STAGE			
4:30 - 4:45 pm	Meet the Speaker: Pedro Gómez	LOUNGE			
4:45 - 5:00 pm	Break (15 min)				
5:00 - 6:00 pm	Loic Royer (CZ Biohub)	STAGE			
5:00 - 6:00 pm 6:00 - 6:15 pm	Loic Royer (CZ Biohub) Meet the Speaker: Loic Royer	STAGE LOUNGE			
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6:00 - 6:15 pm 6:30 pm	Meet the Speaker: Loic Royer	LOUNGE			
6:00 - 6:15 pm 6:30 pm	Meet the Speaker: Loic Royer Virtual Beer Tasting	LOUNGE			
6:00 - 6:15 pm 6:30 pm Thursday, 30 S 1:00 - 2:00 pm	Meet the Speaker: Loic Royer Virtual Beer Tasting eptember 2021	LOUNGE GAME ROOM			
6:00 - 6:15 pm 6:30 pm Thursday, 30 S	Meet the Speaker: Loic Royer Virtual Beer Tasting eptember 2021 Daniela & Franz Pfeiffer (TUM)	GAME ROOM STAGE			
6:00 - 6:15 pm 6:30 pm Thursday, 30 S 1:00 - 2:00 pm 2:00 - 2:15 pm	Meet the Speaker: Loic Royer Virtual Beer Tasting eptember 2021 Daniela & Franz Pfeiffer (TUM) Meet the Speakers: D. & F. Pfeiffer Break (15 min)	GAME ROOM STAGE			
6:00 - 6:15 pm 6:30 pm Thursday, 30 S 1:00 - 2:00 pm 2:00 - 2:15 pm 2:15 - 2:30 pm	Meet the Speaker: Loic Royer Virtual Beer Tasting eptember 2021 Daniela & Franz Pfeiffer (TUM) Meet the Speakers: D. & F. Pfeiffer	CAME ROOM STAGE LOUNGE			
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TALKS

STAGE

About the work of the Ethics Council

Tuesday, 2:00 pm

Alena Buyx

Technical University of Munich

Professorship for Ethics in Medicine and Health

Director Institute of History and Ethics in Medicine

Chairwoman German Ethics Council

More information

Machine learning for microscopy image analysis

Tuesday, 12:30 pm

Anna Kreshuk

European Molecular Biology Laboratory

Group leader Machine Learning for Bioimage Analysis

More information

Cells, Photons and Bits – A Pluridisciplinary Approach to Study Zebrafish Embryonic Development

Wednesday, 5:00 pm

Loic Royer

Chan Zuckerberg Biohub
Group leader Royer lab

More information

From doctorate at GCB to TUM spin-off Orbem

Wednesday, 3:30 pm

Pedro Gómez

CEO Orbem GmbH

Technical University of Munich

More information

Algorithms for biological and medical imaging

Thursday, 3:45 pm

Tobias Lasser

Technical University of Munich

Group leader Computational Imaging and Inverse Problems

More information

Al-enabled medical imaging

Monday, 2:00 pm

Julia Schnabel

Technical University of Munich

Imaging Helmholtz Zentrum München

Professorship for Computational Imaging and AI in Medicine

More information

Advances in CT Image Formation

Monday, 3:00 pm

Marc Kachelrieß

Deutsches Krebsforschungszentrum

Division head and group leader X-Ray Imaging and Computed Tomography

More information

Dark field imaging for Covidpatients

Thursday, 1:00 pm

Daniela Pfeiffer

Technical University of Munich School of Medicine & University Hospital rechts der Isar

Franz Pfeiffer

Technical University of Munich Chair of Biomedical Physics Director Munich School of BioEngineering

More info D. Pfeiffer

More info F. Pfeiffer

Translating a physics invention into a molecular diagnostic product

Thursday, 2:30 pm

Johannes Wöhrstein

Ludwig-Maximilians-Universität München

Group leader DEOXY Technologies

More information

POSTER SESSION

SESSION WEDNESDAY 1:45 – 3:30 pm, FOYER

POSTER	RESEARCHER	TOPIC	TIME AT POSTER
1	Erika Kollitz	A patient-specific hybrid whole-body computational phantom for out-of-field dose and equivalent dose estimation in proton therapy	1:50 - 2:05 pm
2	Xiaoxiao Zhang	CINgo: Predicting CIN using gene ontology guided deep neural network	1:55 - 2:10 pm
3	Juan Pablo de la Cruz Gutierrez	Data driven tools to support the study of the human inner ear and its disorders	2:00 - 2:15 pm
4	Manuela Duda	Dual Energy CT for a Small Animal Radiation Research Platform (SARRP)	2:05 - 2:20 pm
5	Henning Schmitz	Experimental lung phantom based validation of scatter corrected 4D cone beam computed tomography for proton dose calculation	2:10 - 2:25 pm
6	Jakob Lingg	Fluorescent Probes, Optics, Imaging	2:15 - 2:30 pm
7	Jonathan Rapp	Inductive stimulation of the phrenic nerve	2:20 - 2:35 pm
8	Lucas Sommer	Pencil Beam Kernels for the Mixed Fast Neutron and Gamma Radiation Field at FRM II	2:25 - 2:40 pm
9	Manuel Schultheiss	Per-Pixel Lung Thickness Estimation on Chest Radiographs	2:30 - 2:45 pm
10	Tai Anh La	Photoacoustic mesoscopy on an sub-millimeter optical fiber probe	2:35 - 2:50 pm
11	Rami Al-Maskari	Segmentation of the peripheral nervous system	2:40 - 2:55 pm
12	Albert Croner	Simulation of Electrical Exciation Patterns with Degenerating Auditory Nerve Fibers	2:45 - 3:00 pm
13	Moritz Rabe	Time-resolved estimated synthetic CT for lung tumor treatments at the MR-Linac	2:50 - 3:05 pm
14	Bojan Sandurkov	Waveforms in Transcranial Magnetic Stimulation	2:55 - 3:10 pm
15	Sebastian Endt	Unmixing tissue compartments via deep learning T1-T2-relaxation correlation imaging	3:00 - 3:15 pm

How to stay sane during a doctorate Mental health strategies for you and your surrounding

About the Workshop

The workshop will be split up in two parts.

Part 1:

What is mental health, what are mental diseases and why is this topic important?

How can we recognize that we or our friends or colleagues are at risk of mental health problems?

If we recognize for example changes in behavior, how do we address those changes to others and how do we react?

If we recognize warning signals in our behavior or mood, what can we do and what do we need to do?

Part 2:

What can we do to stay healthy despite stress and challenges? What can we do to stay or become resilient?

How can we handle very stressful situations, crisis, and problems throughout the doctorate process?

From this workshop, you will get insights, know-how and techniques that you can use in your daily practice, but there is also time for exchange and selfreflection.



Image: David Höpfner

About the Lecturer

Dr. med. Tatjana Reichhart is a physician specialized in psychiatry and psychotherapy. She used to work as a scientific and clinical physician at the TU Munich. In 2015 she co-founded "Kitchen2Soul", the first Coaching and Workshop coffee shop / bookstore in Munich. Her focus nowadays is on prevention. She helps individuals and employees in companies to take care of themselves prior to developing mental illnesses. She trains coaches and leaders in resilience. In 2019 her book "Das Prinzip Selbstfürsorge" (selfcare) has been published by Kösel Verlag.

Website