DK CIM & DP DOCC at the Universität Innsbruck

Doctoral Programme Computational Interdisciplinary Modelling DK CIM

In 2010 the DK CIM was initiated at the Universität Innsbruck within the framework of the Research Area Scientific Computing. The program provides substantiated research-guided and well-structured training for excellent Ph.D. fellows in the interdisciplinary field of computational modelling utilizing high performance computing, within the fields of atmospheric science, chemistry, computer science, material science, engineering science, mathematics and physics.

uibk.ac.at/dk-cim

Doctoral Programme Dynamics of Complex Continua DP DOCC

The DP DOCC started 2019 and is a novel interdisciplinary EC H2020 Marie Skłodowska-Curie COFUND doctoral training programme for international high-potential early-stage researchers. Focusing on modelling and simulation in the intersectorally seminal fields of computational material, fluid and gas dynamics, it is rooted in basic, natural and engineering sciences at the Universität Innsbruck.

uibk.ac.at/projects/dp-docc

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Programme

of the

Summerschool 2021:
Modelling simulation and Physical phenomena of complex continua

Doctoral Programme
Computational Interdisciplinary Modelling
&
Doctoral Programme
Dynamics of Complex Continua

Monday, July 26th to Friday, July 30th 2021
Universität Innsbruck & UZE Obergurgl

Tyrol, Austria

Funded by LAND TIROL

Programme

Monday, July 26th 2021: Universität Innsbruck – Transfer to Obergurgl

13:00 – 14:00	Check of 3G (tested, vaccinated or recovered) – Introduction in the safety regulations for COVID-19
14:00 – 16:00	Transfer / bus departure meeting point: parking lot Campus Technik
16:00 – 17:00	welcome by A. Kendl (programme speaker) Research cluster – Introduction and come together
17:00 – 18:00	Faculty Meeting (Fellows free time or Fellows meeting) **General assembly with video stream**
18:30 – 19:30	Dinner
20:00 – 20:30	**Publication rules in an EU programme,** **Research cluster: introduction**

Tuesday, July 27th 2021: UZE Obergurgl

08:00 – 9:00	Breakfast
09:00 – 10:30	Introductory talks by new PhD fellows **(4x15+5min)**
10:30 – 11:00	Coffee
11:00 – 12:30	Introductory talks by new PhD fellows **(4x15+5min)**
12:30 – 14:00	Lunch
14:00 – 15:30	Talk by Chiara PIAZZOLA (CNR-IMATI): *Multi-fidelity computational approaches for the uncertainty quantification of ship performance* Talk by Christoph DELLAGO (UNI Vienna): *Molecular simulation of nucleation processes: from ice nucleation to cavitation*
15:30 – 16:00	Coffee
16:00 – 17:30	Talk by Katrin TANZER (PSB, livestream) *Software Intellectual Property – How to use and protect it* Talk by Philipp GSCHWANDTNER (HPC): *Porting Real-World Applications to GPU Clusters: A Celerity and CRONOS Case Study*
17:30 – 18:00	Talk by Alexander KENDL *New Ombudsman for Good Scientific Practice*
18:30 – 19:30	Dinner
20:00 – 20:30	Research Cluster – brain storming - forum

Wednesday, July 28th 2021: UZE Obergurgl

08:00 – 9:00	Breakfast
8:30 – 9:00	**COVID-19 testing for those that are not vaccinated or recovered**
9:00 – 15:00	GLACIER visit and hike through the pine forest– bad weather: exchange with Thursday
15:30 – 16:00	Coffee
16:00 – 17:30	Introductory talks by new PhD fellows **(4x15+5min)**
17:30 – 18:30	FREE time to relax after the hike and/or for social contacts
18:30 – 19:30	Dinner
19:45 - 21:30	**Movie: Marie Curie (2020)**

Thursday, July 29th 2021: UZE Obergurgl

08:00 – 9:00	Breakfast
09:00 – 10:30	Workshop by Florian AIGNER (TU Vienna, livestream): *Communication in science*
10:30 – 11:00	Coffee
11:00 – 12:30	Talk by Ivana STIPERSKY (ACINN) *Local weather and climate conditions in the inner Alps* Lukas EINKEMMER (UIBK): *Scientific computing and modern computer architectures*
12:30 – 14:00	Lunch
14:00 – 15:30	Introductory talks by new PhD fellows **(4x15+5min)**
15:30 – 16:00	Coffee
16:00 – 17:30	Introductory talks by new PhD fellows **(4x15+5min)**
17:30 – 18:30	FREE time for social contacts
18:30 – 19:30	Dinner
20:00 - 20:30	**Research Cluster - discussion**

Friday, July 30th 2021: UZE Obergurgl

08:00 – 9:00   Breakfast

8:30 – 9:00   **COVID-19 testing for those that are not vaccinated or recovered**

09:00 – 10:30   Talk by Lisa Hofer and Barbara Laner (IUB, livestream)

Open Access at the University of Innsbruck

10:30 – 11:00   Coffee

11:00 – 12:30   Discussion lead by Alexander KENDL

Publications – Overview, Review

Research Cluster – final

All open questions

12:30 – 14:00   Lunch

14:00 – 15:00   **Departure and transfer to Umhausen**

15:00 – 16:00   Ötzi-village in Umhausen

16:00 – 18:00   Transfer to Innsbruck Campus Technik

Additional Information about the social events:

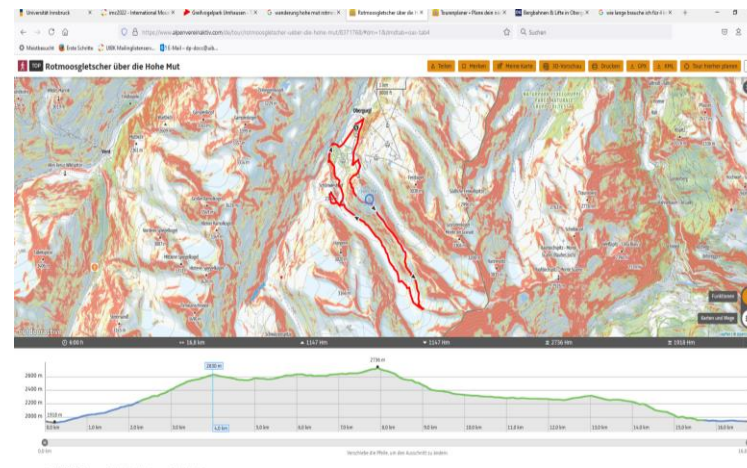**Ötzi-village in Umhausen**: Friday afternoon on the way home to Innsbruck

We will have a guided tour in English, AudioGuides are also available – please bring your own headset and your mobile phone if you prefer this. Duration: appr. 1 hour
TIPP: also very close: Stuibenfälle – the biggest waterfall in Tyrol have a look! 😉

For further information see:
https://www.oetzi-dorf.at/gb/

Glacier visit: Wednesday 9:00 – 15:00

We will take the Hohe Mut Bahn up to 2670 m a.s.l. (the blue circle in the map is our starting point for the walk) and make a more or less flat hike to the tongue of the glacier Rotmoosferner (2.730 m a.s.l.; 1-1,5 hours to walk) where we will have time to rest and enjoy the amazing environment.
The descent through the natural monument "Obergurgler Zirbenwald" (pine forest) passing the Rotmoos waterfall completes this spectacular hike (2-2,5 hours to walk).

Total distance of the hike: appr. 12 km,
Duration of the hike: appr. 3-4 hours to walk.
You need: **good hiking shoes**, warm cloth, rain protection, backpack, water bottle, sun protection, sun glasses….
You will get a lunch box from the UZE Obergurgl for the walk.