

Scales 2023

Multiscale Modeling of Complex Systems

1st SCALES Conference, 27–30 June 2023
Johannes Gutenberg University, Mainz, Germany

Pre-conference Workshop
JGU Mainz, 26 June 2023:

HPC using JULIA

**by L. Räss, ETH Zurich &
B. Kaus, JGU Mainz**

Registration deadline: April 30th

Abstract submission deadline: April 17th

<https://converia.uni-mainz.de/>

Invited Speakers:

- Eitan Tadmor, Univ. of Maryland
- Taras Gerya, ETH Zurich
- Maribel Núñez Valdéz, GFZ Potsdam
- Masao Doi, Beihang Univ. Beijing
- Markus Deserno, Carnegie Mellon Univ.
- Wojciech Gabrowski, NCAR Boulder
- Alexandre Tkatchenko, Univ. Luxembourg
- George Karniadakis, Brown Univ.
- Nikki Vercauteren, Univ. of Oslo
- Benjamin Gess, MPI Leipzig
- Robert Scheichl, Univ. Heidelberg
- Albert Cohen, Sorbonne Univ. Paris
- Gerhard Hummer, MPI Frankfurt
- Virginie Ehrlacher, Paris Tech
- Heini Wernli, ETH Zurich
- Ludovic Räss, ETH Zurich
- Dave May, UCSD

Topics include methods relevant to multiscale modelling of problems in atmospheric and geological sciences, soft-matter physics and biology:

- 1. Stochastic models**
- 2. HPC and ML**
- 3. UQ and inverse methods**
- 4. Multiscale methods**
- 5. Interdisciplinary applications**

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