



2nd **REASON** Interdisciplinary Spring School 2018

Advances in measuring scientific reasoning and argumentation



5th – 7th 2018 LMU Munich



March 5th - 7th, 2018 Ludwig-Maximilians-Universität München, Germany

Scientific reasoning and argumentation (SRA) are essential competencies in modern knowledge societies. How do people reason about science? How should we as scientists think about scientific evidence? How can we measure competencies in SRA? These questions and essential aspects of research on SRA will be addressed by leading experts at the 2018 Spring School at LMU Munich.

ORGANIZERS

Frank Fischer (LMU), Martin Fischer (LMU), Moritz Heene (LMU), Heinrich Hußmann (LMU), Birgit Neuhaus (LMU), Reinhard Pekrun (LMU),

Keynotes

- Michelene (Micki) T.H. Chi (Arizona State University), Conceptual change in understanding collective causality versus individual causality
- Rainer Bromme (University of Münster), Bounded reasoning or bounded understanding: Revealing (hidden) aims of different approaches on scientific literacy
- Wolfgang Gaissmaier (University of Konstanz), Thinking about scientific evidence: Fallacies and methods of improvement

Workshops

- Rainer Bromme (University of Münster), Bounded reasoning or bounded understanding: Revealing (hidden) aims of different approaches on scientific literacy
- Michelene (Micki) T.H. Chi (Arizona State University), Principles and methods of coding qualitative data
- Hansjörg Neth (University of Konstanz), Grasping uncertainty: What experts and laypeople need to know when reasoning about science
- Kurt VanLehn (Arizona State University), Techniques used by intelligent tutoring systems to analyze (scientific) reasoning

Symposium / The use of evidence in research and practice across domains

- Eileen Gambrill (University of California at Berkeley), Ignorance and argumentation
- Simine Vazire (University of California, Davis), Thinking critically about scientific evidence: Lessons from the replicability crisis
- Manfred Prenzel (Technical University of Munich), The use of evidence in education

Symposium discussant: Christopher Osterhaus (LMU Munich)





Technische Universität Müncher



Beate Sodian (LMU), Stefan Ufer (LMU), Manfred Prenzel (TUM), Kristina Reiss, Tina Seidel (TUM), Birgit Dorner (KSFH), Sabine Pankofer, (KSFH), Ingo Kollar (Augsburg University), Johannes **Bauer (Erfurt University)**

www.en.mcls.lmu.de/reason

Don't miss out on this great opportunity to learn about state-of-the-art research on SRA, as well as to present and discuss your own work with leading experts in the field.

We look forward to applications from PhD candidates who are currently working on SRA. There is no registration fee for participation. PhD candidates without funding from their institutions have the opportunity to apply for one of the 12 available travel grants, each up to 500 €.

Elitenetzwerk