Interplay of
Domain-Specific
and DomainGeneral Aspects of
Scientific
Reasoning and
Argumentation
Skills

International Workshop organized by Prof. Dr. Frank Fischer (CAS Senior Researcher in Residence), Prof. Clark Chinn, Ph.D. (Rutgers/CAS Fellow), Katharina Engelmann (LMU) and Prof. Jonathan Osborne, Ph.D. (Stanford/CAS Fellow)

This workshop explores the extent to which scientific reasoning is dependent on domain-general and/or domain-specific knowledge. Improving our understanding of this enduring issue in psychology, philosophy and sociology is crucial to deepening our understanding of one of the major goals of science education at all levels. The workshop brings together scholars focusing on scientific reasoning and argumentation in a broad range of domains, including a range of natural sciences, the learning sciences, cognitive sciences, as well as computational linguistics.



International Workshop

Interplay of Domain-Specific and Domain-General Aspects of Scientific Reasoning and Argumentation Skills 6-8 July 2016

## Organized by

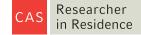
- Prof. Dr. Frank Fischer (CAS Senior Researcher in Residence)
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18:15 - 18:30	Welcome Reception Orientation (Frank Fischer, LMU Munich) Keynote Lecture Paul Thagard (University of Waterloo) Why Reason? Inference, Reasoning, and Education	15:00 - 16:00	Layers of Specificity Influence Reasoning in Science Argument Evaluation Discussant: Jonathan Osborne (Stanford/CAS Fellow)  Frank Fischer (LMU Munich), Andreas Hetmanek (TU Munich), Katharina Engelmann (LMU Munich), Ansgar Opitz (LMU Munich)
	Thursday, 7 July		Beyond Intelligence and Domain Knowledge: Scientific Reasoning and Argumentation as a Multi-Dimensional Cross-Domain Skill Discussant: Leona Schauble (Vanderbilt University)
<b>1st Session</b> 8:30 - 9:30	■ Susan Goldman (University of Illinois at Chicago), ■ Mon-Lin Ko (University of Illinois at Chicago)  Domain-Specificity in the Practices of Explanation, Modeling, and Argument	17:00 - 18:30	16:00 - 18:00 Coffee break and Poster Session (Members of the international graduate program REASON) Meeting of Authors and Editors
	in the Sciences Discussant: Carla van Boxtel (University of	19:00	Conference Dinner (Weinbauer)
	Amsterdam)		Friday, 8 July
9:30 - 10:30	■ Beate Sodian (LMU Munich)  Scientific Reasoning in Elementary and  Preschool Children. Early Competencies,  Cognitive Correlates and Functions for the  Acquisition of Domain-Specific Knowledge  Discussant: Rainer Bromme (Münster University)	<b>4th Session</b> 8:30 - 9:30	■ Clark Chinn (Rutgers/CAS Fellow)  General Versus Specific Epistemic Cognition:  What – if any – Benefits Arise from General  Knowledge?  Discussant: Paul Thagard (University of Waterloo)
<b>2nd Session</b> 11:00 - 12:00	10:30 - 11:00 Coffee Break	9:30 - 10:30	■ Leona Schauble (Vanderbilt University) In the Eye of the Beholder: Domain-General and Domain-Specific Reasoning in Science Discussant: Beate Sodian (LMU Munich)
	of Disciplinary Knowledge in Reasoning with		10.20 11.00 Coffee basel
	and about Evidence in Scientific Practice  Discussant: Susan Goldman (University of  Illinois at Chicago)	<b>5th Session</b> 11:00 - 12:00	■ Carla van Boxtel (University of Amsterdam) ■ Jannet van Drie (University of Amsterdam)  Historical Reasoning: The Interplay of
12:00 - 13:00	<ul> <li>Iryna Gurevych (TU Darmstadt),</li> <li>Johannes Daxenberger (TU Darmstadt)</li> <li>Domain-Specific Aspects of Reasoning and Argumentation: Insights from Automatic</li> </ul>		Domain-General and Domain-Specific Aspects Discussant: Ala Samarapungavan (Purdue University)
	Coding Discussant: Frank Fischer (LMU Munich)	12:00 - 13:00	■ Jonathan Osborne (Stanford/CAS Fellow)  Styles of Scientific Reasoning: What Can We  Learn from Looking at the Product not the
2nd Cossian	13:00 - 14:00 Lunch Break		Process of Scientific Reasoning?
<b>3rd Session</b> 14:00 - 15:00	■ Dorothe Kienhues (Münster University), ■ Eva Thomm (Münster University), ■ Rainer Bromme (Münster University)	13:00 - 14:00	Discussant: Clark Chinn (Rutgers/CAS Fellow)  Farewell Lunch
		Afternoon	Discovering Munich (Excursion)

Specificity Reloaded: How Multiple

Wednesday, 6 July