



LUDWIG-
MAXIMILIANS-
UNIVERSITÄT
MÜNCHEN

CAS^{LMU} CENTER FOR ADVANCED STUDIES
RESEARCHER IN RESIDENCE



REASONING AND ARGUMENTATION IN SCIENCE

International Conference at the Center for Advanced Studies, LMU Munich

Organized by Dr. Ben Eva, Dr. Karolina Krzyżanowska, and Prof. Dr. Stephan Hartmann (CAS Senior Researcher in Residence)

31 May to 2 June 2017

WEDNESDAY, 31 MAY 2017

09:15 – 09:30 Welcome Address

09:30 – 10:45 Keynote talk: **Wayne Myrvold** (Western University)
Scientific Reasoning without Principles

10:45 – 11:15 Coffee Break

11:15 – 12:00 **Simon Friederich** and **Jan-Willem Romeijn** (Groningen)
*How Fine-Tuning for Life Is Relevant to Belief in a Multiverse
(and how not)*

12:00 – 12:45 **Chloé de Canson** (LSE)
The Method of Arbitrary Functions

12:45 – 13:45 Lunch Break (at CAS)

13:45 – 14:30 **Stephan Hartmann** (LMU)
Bayesian Argumentation and the Value of Logical Validity

14:30 – 15:15 **Reuben Stern** (LMU)
Reifying Modus Ponens

15:15 – 15:45 Coffee Break

15:45 – 16:30 **Naftali Weinberger** (Tilburg)
Extrapolative Inferences

16:30 – 17:15 **Joshua Luczak** (Hannover)
More Talk about Toy Models

17:15 - 18:15 Reception

18:15 – 19:30 Keynote talk: **Christian List** (LSE)
Levels: Descriptive, Explanatory, Ontological

THURSDAY, 1 JUNE 2017

09:30 – 10:45 Keynote talk: **Catarina Dutilh Novaes** (Groningen)
The Social Epistemology of Scientific Argumentation

10:45 – 11:15 Coffee Break

11:15 – 12:00 **Douglas Walton** (Windsor) and **Curtis Hyra** (Windsor)
Argumentation Schemes in Science: Beyond Analogy and Abduction

12:00 – 12:45 **Vincenzo Crupi** (Turin) and **Katya Tentori** (Trento)
Reasoning and Argumentation in the Experimental Study of Reasoning and Argumentation

12:45 – 14:15 Lunch Break

14:15 – 15:00 **Roland Poellinger** (LMU)
Relevance, Similarity, and Analogy: Knowledge Transfer in Pharmacological Research

15:00 – 15:45 **Ludwig Fahrbach** (Dusseldorf)
Confirming Theories without Considering Rival Theories

15:45 - 16:15 Coffee Break

16:15 – 17:00 **Marko Tešić** (LMU)
Justifying Inference to the Best Explanation: a Bayesian Way

17:00 – 17:45 **Andreas Finsen** (Amsterdam)
Scientific Metaphor as Inference to the Best Explanation

18:30 Conference Dinner for speakers

FRIDAY, 2 JUNE 2017

- 09:30 – 10:45 Keynote talk: **John Norton** (Pittsburgh)
Two Contrarian Theses on Calculi of Inductive Inference
- 10:45 – 11:15 Coffee Break
- 11:15 – 12:00 **Benjamin Eva** (LMU)
Multi Level Explanatory Power
- 12:00 – 12:45 **Mark Weinstein** (Montclair)
Physical Chemistry and Emerging Truth
- 12:45 – 14:15 Lunch Break
- 14:15 – 15:00 **Catherine Hundleby** (Windsor)
Argumentation Schemes and Scientific Ignorance
- 15:00 – 15:45 **Harry Waterstone** (LMU)
*Bayesian Utility Conditionals and Arguments
from Consequence*
- 15:45 – 16:15 Coffee Break
- 16:15 – 17:00 **Gregory Wheeler** (Frankfurt School of Finance and
Management)
Remarks on Machine Learning and Instrumental Predictions



Venue:

Center for Advanced Studies
Ludwig-Maximilians-Universität München
Seestraße 13
80802 München