

## ABOUT THE CONFERENCE

### 1st Edition of the 'Hamburg Conferences on Computational Legal Theory'

In law, causation is an important factor in the assignment of responsibility for action. Although civil law jurisprudence long ago has come up with the idea of a 'conditio sine qua non' also known as the 'but for test' in common law, existing theories of causation are problematic and remain for example unable to – in a reasonable way – ascertain the relevance of multiple causes in situations of overdetermination. At our conference, international leading experts from the disciplines of law, philosophy and logic will present new approaches to solve some of these problems and use non-classical logics to develop formal models of causation.

## ORGANISATION

**Chaofeng Chen**, Secretary of the chair, Universität Hamburg

**Michael Preisig**, Doctoral Candidate and Research Associate at the chair, Universität Hamburg

**Maria Elina Koulouri**, Doctoral Candidate and Research Associate at the chair, Universität Hamburg

**Xueyan Wang**, Doctoral Candidate and Research Associate at the chair, Universität Hamburg

## CONVENOR

**Prof. Dr. Matthias Armgardt**

Nucleus Professor for Global Legal History  
and Civil Law

University of Hamburg  
Faculty of Law

## CONTACT

Chaofeng Chen

[chaofeng.chen@uni-hamburg.de](mailto:chaofeng.chen@uni-hamburg.de)



# CONFERENCE ON FORMAL MODELS OF CAUSATION IN LAW

UNIVERSITY OF HAMBURG, JUNE 16-17



Universität Hamburg  
DER FORSCHUNG | DER LEHRE | DER BILDUNG

**ZeRdiT**  
Centre for Law in the Digital Transformation  
at the University of Hamburg

## THURSDAY, 16TH JUNE 2022

WARBURG HAUS, HEILWIGSTRASSE 116, 20249 HAMBURG

- 9:00 - 10:00**      **Explaining the Cause of Economic Duress: A Curious Case from American Contract Law**  
Prof. Dr. Scott Brewer, Professor of Law, Harvard Law School
- 10:00 - 10:30**      Discussion
- Coffee break**
- 11:00 - 12:00**      **Causal Reasoning in Legal Cases**  
Prof. Dr. Giovanni Sartor, Professor of Legal Informatics and Legal Theory, University of Bologna, European University Institute; Prof. Dr. Adam Wyner, Associate Professor of Computer Science, Swansea University; Dr. Rūta Liepiņa, AI and Law Researcher, Maastricht University
- 12:00 - 12:30**      Discussion
- Lunch break**
- 13:30 - 14:30**      **An Epochetic Account of Causation**  
Prof. Dr. Mario Günther, Assistant Professor, Munich Center for Mathematical Philosophy, LMU München
- 14:30 - 15:00**      Discussion
- Coffee break**
- 15:30 - 16:30**      **Shared Agency and Causation in Human-AI Interaction Dynamics**  
Dr. Caterina Moruzzi, Department of Philosophy, University of Konstanz
- 16:30 - 17:00**      Discussion
- ab 18:30**          Dinner

# PROGRAMME

## FRIDAY, 17TH JUNE 2022

AS-SAAL, EDMUND-SIEMERS-ALLEE 1, 20146 HAMBURG

- 9:00 - 10:00**      **NESS Conditions in the Logic of Causal Models**  
Prof. Dr. Holger Andreas, Associate Professor of Philosophy, University of British Columbia
- 10:00 - 10:30**      Discussion
- Coffee break**
- 11:00 - 12:00**      **Reasoning about Agent Causation**  
Prof. Dr. Emiliano Lorini, Institut de Recherche en Informatique de Toulouse, Centre National de la Recherche Scientifique
- 12:00 - 12:30**      Discussion
- Lunch break**
- 13:30 - 14:30**      **The Hypothetical Nature of Legal Liability and its Temporal Dimension. Towards a Dialogical Approach to Causation in Law**  
Prof. Dr. Shahid Rahman, Professor of Philosophy and Logic, Université de Lille
- 14:30 - 15:00**      Discussion
- Coffee break**
- 15:30 - 17:00**      Final discussion and debriefing
- ab 18:30**          Dinner