

LMU

LUDWIG-  
MAXIMILIANS-  
UNIVERSITÄT  
MÜNCHEN

MRIC | MUNICH RISK AND  
INSURANCE CENTER

# MRIC ANNUAL REPORT 2020







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# 1. GOVERNANCE OF THE MUNICH RISK AND INSURANCE CENTER

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## **ADVISORY BOARD**

Prof. Dr. Thomas Hartung (Universität der Bundeswehr München)  
Dr. Robert Heene (Versicherungskammer Bayern)  
Dr. Doris Höpke (Munich Re)  
Prof. Dr. Bernd Huber (Ludwig-Maximilians-Universität München)  
Dr. Hans-Peter Krauß (Bavarian Ministry of Economic Affairs and Media, Energy and Technology)  
Vincenzo Reina (Generali Deutschland AG)  
apl. Prof. Dr. Jochen Ruß (Institut für Finanz- und Aktuarwissenschaften – Gesellschaft für Finanz- und Aktuarwissenschaften mbH)  
Aylin Somersan Coqui (Allianz Deutschland)

## **EXECUTIVE BOARD**

Prof. Dr. jur. Thomas Ackermann, LL.M. (Cambridge) (Chair for Civil Law, European and International Business Law)  
Prof. Dr. Francesca Biagini (Workgroup in Financial and Insurance Mathematics)  
Prof. Dr. Johannes Jaspersen (Institute for Risk Management and Insurance)  
Dr. Stephanie Müller (Institute for Risk Management and Insurance)  
Prof. Dr. Andreas Richter (Institute for Risk Management and Insurance)

## **PROGRAM COORDINATOR**

Dr. Stephanie Müller (Institute for Risk Management and Insurance)

## 2. MEMBERS OF THE MUNICH RISK AND INSURANCE CENTER

### PROFESSORS AT LUDWIG-MAXIMILIANS-UNIVERSITÄT MÜNCHEN

Prof. Dr. jur. Thomas Ackermann, LL.M. (Cambridge) (Chair for Civil Law, European and International Business Law)  
Prof. Dr. Francesca Biagini (Workgroup in Financial and Insurance Mathematics)  
Prof. Dr. Ralf Elsas (Institute for Finance and Banking)  
Prof. Dr. Florian Englmaier (Chair of Organizational Economics)  
Prof. Dr. Christian Fries (Workgroup in Financial and Insurance Mathematics)  
Prof. Dr. Markus Glaser (Institute for Capital Markets and Corporate Finance)  
Prof. Dr. Thomas Hess (Institute for Information Systems and New Media)  
Prof. Dr. Johannes Jaspersen (Institute for Risk Management and Insurance)  
Prof. Dr. Reiner Leidl (Institute for Health Economics and Health Care Management)  
Prof. Dr. Thilo Meyer-Brandis (Workgroup in Financial and Insurance Mathematics)  
Prof. Stefan Mittnik, Ph.D. (Seminar for Financial Econometrics)  
Prof. Dr. Ari-Pekka Perkkiö (Workgroup in Financial and Insurance Mathematics)  
Prof. Dr. Andreas Richter (Institute for Risk Management and Insurance)  
Prof. Dr. Simeon Schudy (Chair for Behavioral and Experimental Economics)  
Prof. Dr. Manfred Schwaiger (Institute for Market-Based Management)

### RESEARCH ASSISTANTS AND POST-DOCS

Dr. Bahar Akhtari (Workgroup in Financial and Insurance Mathematics)  
Roland Bachl, M.Sc. (Workgroup in Financial and Insurance Mathematics)  
Dr. Martin Bauer (Workgroup in Financial and Insurance Mathematics)  
Johannes Blaschczok (Chair for Civil Law, European and International Business Law)  
Christoph Braun (Chair for Civil Law, European and International Business Law)  
Simon Deuring (Chair for Civil Law, European and International Business Law)  
Eva Fischer (Chair for Civil Law, European and International Business Law)  
Benjamin Heidler, M.Sc. (Institute for Risk Management and Insurance)  
Julia Holzapfel, M.Sc. (Institute for Risk Management and Insurance)  
Dr. Tobias Huber (Institute for Risk Management and Insurance)  
Dr. Alexander Kalinin (Workgroup in Financial and Insurance Mathematics)  
Dr. Lu Li (Institute for Risk Management and Insurance)  
Dr. Andrea Mazzon (Workgroup in Financial and Insurance Mathematics)  
Thomas Reitsam, M.Sc. (Workgroup in Financial and Insurance Mathematics)  
Dr. Sophie-Madeleine Roth (Institute for Risk Management and Insurance)  
Dr. Stephanie Müller (Institute for Risk Management and Insurance)  
Veronika Seitz (Chair for Civil Law, European and International Business Law)  
Annika Steibel, M.Sc. (Workgroup in Financial and Insurance Mathematics)

## 2. MEMBERS OF THE MUNICH RISK AND INSURANCE CENTER

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Roxane Steinacker, M.Sc. (Institute for Risk Management and Insurance)  
Elisabeth Stöckl, M.Sc. (Institute for Risk Management and Insurance)  
Severin Ushler (Chair for Civil Law, European and International Business Law)  
Sandra Zoller, M.Sc. (Institute for Risk Management and Insurance)

### ASSOCIATED MEMBERS

Dr. Nikolaos Argyris (Loughborough University)  
Michael Aschenbrenner (Ludwig-Maximilians-Universität München)  
Dr. Vijay Aseervatham (Swiss Re)  
Dr. Klaus Bender (Swiss Re)  
Prof. Dr. Enrico Biffis (Imperial College London)  
Prof. Patricia Born, Ph.D. (Florida State University)  
Prof. Mark Browne, Ph.D. (St. John's University)  
Prof. Richard J. Butler, Ph.D. (Global Center for Longevity Risk Management at SWUFE)  
Prof. Randy Dumm, Ph.D. (Temple University)  
Prof. Louis Eeckhoudt, Ph.D. (IÉSEG School of Management and C.O.R.E.)  
Prof. (em.) Dr. Dr. h.c. Roland Eisen (Goethe University Frankfurt am Main)  
Dr. Tobias Gerstner (EY)  
Dr. Michael Hanselmann (Technical University of Munich)  
Karl Happe (Allianz Global Investors)  
Prof. Dr. Thomas Hartung (Universität der Bundeswehr München)  
Markus Huber, M.Sc. (Ludwig-Maximilians-Universität München)  
Dr. Bernd Jäger (Allianz SE)  
Dr. Verena Jäger (Allianz SE)  
Dipl.-Math. Pierre Joos (Pierre Joos consulting)  
Dr. Barbara Klimaszewski-Blettner (Allianz Global Corporate & Specialty)  
Dr. Alexander Kling (Institut für Finanz- und Aktuarwissenschaften – Gesellschaft für Finanz- und Aktuarwissenschaften mbH)  
Dr. Christian Knoller (Allianz SE)  
Prof. Dr. Martin Kocher (Universität Wien and Institute for Advanced Studies Vienna)  
Dr. Gunther Kraut (Munich Re)  
Dr. Andreas Kunz (Munich Re)  
Dr. Alex Langnau (Allianz SE)  
Dr. Christoph Lex (Munich Re)  
Dr. Peter Liebwein (Swiss Re)  
Dr. Dominik Lohmaier (Versicherungskammer Bayern)



## 2. MEMBERS OF THE MUNICH RISK AND INSURANCE CENTER

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Prof. Richard MacMinn, Ph.D. (National Chengchi University)  
Prof. Dr. Edgar Neuburger (Institut für Wirtschaftsmathematik und betriebliche Altersversorgung GmbH)  
Dr. Stefan Neuß (Diözese Passau)  
Dr. Laila Neuthor (we4 Impact GmbH)  
Dr. Peter Ott (EY)  
Prof. Dr. Richard Peter (University of Iowa)  
Prof. Kai Purnhagen, Ph.D., LL.M. (Wisconsin) (University of Bayreuth)  
Prof. Marc A. Ragin, Ph.D. (University of Georgia)  
Dr. Paul Raschky (Monash University)  
Prof. (em.) Ray Rees, Ph.D. (Ludwig-Maximilians-Universität München)  
Prof. (em.) Dr. Wolfgang Runggaldier (University of Padova)  
Dr. Rainer Sachs (Sachs Institut)  
Prof. Dr. Jörg Schiller (Universität Hohenheim)  
Dr. Herbert Schmidt (Berufsbildungswerk der Versicherungswirtschaft in München e.V. and riva training & consulting GmbH)  
Pascal Schoenmaekers (Munich Re)  
PD Dr. Günther Schwarz (Munich Re)  
Dr. Sebastian Soika (Munich Re)  
Prof. Dr. Petra Steinorth (Universität Hamburg)  
Dr. Sebastian Strasser (Swiss Re)  
Dennis Strümpel, M.Sc. (Ludwig-Maximilians-Universität München)  
Yunjie (Winnie) Sun, Ph.D. (EY)  
Prof. Dr. Gregor Svindland (Leibniz Universität Hannover)  
Brandon Sweitzer (St. John's University)  
Prof. Paul Thistle, Ph.D. (University of Nevada, Las Vegas)  
Dr. Frederik Weber (Munich Re)  
Hon.-Prof. Thomas C. Wilson, Ph.D. (Allianz Ayudhya)  
Dr. Michael Wolgast (Moody's)  
Dr. Ferdinand Zahn (Munich Re)  
Prof. Dr. Aihua Zhang (University of Leicester)

## 3. PERSONNEL

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The following persons worked at the institutes involved in the Munich Risk and Insurance Center during the reporting period:

### 3.1

#### PERSONNEL AT THE INSTITUTE FOR RISK MANAGEMENT AND INSURANCE

##### **PROFESSORS**

Prof. Dr. Johannes Jaspersen

Prof. Dr. Andreas Richter

Hon.-Prof. Thomas C. Wilson, Ph.D

##### **POST-DOCS**

Dr. Tobias Huber

Dr. Lu Li

Dr. Stephanie Müller

##### **RESEARCH ASSISTANTS**

Benjamin Heidler, M.Sc.

Julia Holzapfel, M.Sc.

Dr. Sophie-Madeleine Roth

Roxane Steinacker, M.Sc.

Elisabeth Stöckl, M.Sc.

Sandra Zoller, M.Sc.

##### **OTHER DOCTORAL CANDIDATES**

Markus Huber, M.Sc.

Dipl.-Math. Pierre Joos

##### **ADMINISTRATIVE STAFF**

Joëlle Näger

##### **LECTURERS**

Dr. Klaus Bender (Swiss Re)

Prof. Patricia Born, Ph.D. (Florida State University)

Prof. Oliver Brand, LL.M. (Universität Mannheim)

Prof. Dr. Ralf Elsas (Ludwig-Maximilians-Universität München)

Dr. Florian Gallasch (Munich Re)

Emilio Galli Zugaro (Methodos S.p.A. und Orvieto Academy)

## 3. PERSONNEL

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Prof. Dr. Dietmar Harhoff (Max-Planck-Institut für Innovation und Wettbewerb)

Prof. Dr. Thomas Hartung (Universität der Bundeswehr München)

Prof. Dr. Thomas Hess (Ludwig-Maximilians-Universität München)

Dr. Alexander Kling (Institut für Finanz- und Aktuarwissenschaften – Gesellschaft für Finanz- und Aktuarwissenschaften mbH)

Dr. Ralf Klotzbücher (riva training & consulting GmbH)

Dr. Christian Knoller (Allianz SE)

Prof. Dr. Tobias Kretschmer (Ludwig-Maximilians-Universität München)

Dr. Peter Liebwein (Swiss Re)

Prof. Dr. Stefan Mittnik (Ludwig-Maximilians-Universität München)

Dr. Joachim Rawolle (Capgemini)

Dr. Manfred Reichl (MR Advisory)

Dr. Andreas Reuß (Institut für Finanz- und Aktuarwissenschaften – Gesellschaft für Finanz- und Aktuarwissenschaften mbH)

apl. Prof. Dr. Jochen Ruß (Institut für Finanz- und Aktuarwissenschaften – Gesellschaft für Finanz- und Aktuarwissenschaften mbH)

Prof. Dr. Jörg Schiller (Universität Hohenheim)

Dr. Herbert Schmidt (Berufsbildungswerk der Versicherungswirtschaft in München e.V. and riva training & consulting GmbH)

Prof. Dr. Manfred Schwaiger (Ludwig-Maximilians-Universität München)

Hon.-Prof. Thomas C. Wilson, Ph.D. (Allianz Ayudhya)

Mag. Iris Zeppezauer (Sekunde Eins e.U.)

### STUDENT ASSISTANTS

Lena Lorenz

Leon Roth

Vasilena Vasileva

Melisa Yilmaz

## 3. PERSONNEL

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### 3.2

#### PERSONNEL AT THE WORKGROUP IN FINANCIAL MATHEMATICS

##### **PROFESSORS**

Prof. Dr. Francesca Biagini  
PD Dr. Dirk Deckert  
Prof. Dr. Christian Fries  
Prof. Dr. Lukas Gonon  
Prof. Dr. Thilo Meyer-Brandis  
Prof. Dr. Ari-Pekka Perkkiö

##### **POST-DOCS**

Dr. Bahar Akhtari  
Dr. Alexander Kalinin  
Dr. Andrea Mazzon

##### **OTHER DOCTORAL CANDIDATES**

Roland Bachl, M.Sc.  
Martin Bauer, M.Sc.  
Panagiotis Christodoulou, M.Sc.  
Katharina Oberpriller, M.Sc.  
Thomas Reitsam, M.Sc.  
Annika Steibel, M.Sc.

##### **ADMINISTRATIVE STAFF**

Anna Warlimont

##### **LECTURERS**

Andreas Lenckner, M.Sc. (Allianz Private Krankenversicherungs-AG)  
Korbinian Meindl, M.Sc. (Institut für Wirtschaftsmathematik und betriebliche Altersversorgung GmbH)  
Dr. Ulrich Riegel (Munich Re)  
Dr. Irene Schreiber (Allianz Deutschland AG)  
Dr. Günter Schwarz (Munich Re)  
Dr. Christoph Wagner (FMS-Wertmanagement)

## 3. PERSONNEL

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### 3.3

#### PERSONNEL AT THE CHAIR OF PRIVATE LAW, EUROPEAN AND INTERNATIONAL COMMERCIAL LAW

##### **PROFESSOR**

Prof. Dr. Thomas Ackermann, LL.M. (Cambridge)

##### **RESEARCH ASSISTANTS**

Simon Deuring

Eva Fischer

Mareike Neumayer

Veronika Seitz

Yannick Skowronek

Severin Uhsler

Maria Weigert

##### **ADMINISTRATIVE STAFF**

Elke Kälin

##### **STUDENT ASSISTANTS**

Clara Folger

Luca Giehl

Jonathan Knopse

Caroline Sprater

## 4. COURSES

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### 4.1

#### COURSES AT THE INSTITUTE FOR RISK MANAGEMENT AND INSURANCE

##### SUMMER TERM 2020

###### **BACHELOR OF SCIENCE:**

Risiko und Versicherung (Richter)

Tutorial for Risiko und Versicherung (Zoller)

Versicherungsbilanzen (Knoller)

Tutorial for Versicherungsbilanzen (Roth)

Praxis der PR: Communicative Leadership (Galli Zugaro)

Hauptseminar: Behavioral Risk Management and Insurance (Richter, Heidler)

###### **MASTER OF SCIENCE:**

Insurance Economics (Li)

Tutorial for Insurance Economics (Huber)

Reinsurance (Liebwein)

Projektkurs: Versicherungsmanagement (Müller)

###### **MASTER OF BUSINESS RESEARCH:**

Microeconomic Modeling Methods (Peter)

###### **ADDITIONAL SEMINARS:**

Open research seminar series "Risk and Microeconomics Research Seminar" (Richter)

Risk & Insurance Research Seminar (Richter)

Vertiefungskolloquium (Heidler, Huber, Li, Richter, Roth, Steinacker, Zoller)

###### **EXECUTIVE MASTER OF INSURANCE:**

Corporate Finance (Elsas)

Current Trends in Finance and Insurance (Hartung)

Data Analysis (Mittnik)

Insurance Accounting (Gallasch, Knoller)

Value-Based Management of Insurance Companies (Wilson)

## 4. COURSES

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### WINTER TERM 2020/2021

#### BACHELOR OF SCIENCE:

Risiko und Versicherung (Richter)  
Tutorial for Risiko und Versicherung (Steinacker)  
Insurance Management (Müller)  
Tutorial for Insurance Management (Müller)  
Praxis der PR: Communicative Leadership (Galli Zugaro)  
BWL in Theorie und Praxis – Ringvorlesung (Richter)  
Hauptseminar: Information and Insurance (Richter, Huber)  
Seminar: Catastrophe Risk Management (Born)

#### MASTER OF SCIENCE:

Advanced Risk Management (Li)  
Tutorial for Advanced Risk Management (Zoller)  
Projektkurs: Versicherungsmanagement (Müller)  
Proseminar: Aktuelle Entwicklungen in der Altersvorsorge (Kling)  
Proseminar: Asset Liability Management (Schwarz)

#### ADDITIONAL SEMINARS:

Open research seminar series “Risk and Microeconomics Research Seminar” (Richter)  
Risk & Insurance Research Seminar (Richter)  
Vertiefungskolloquium (Holzapfel, Huber, Li, Richter, Müller, Steinacker, Stöckl, Zoller)

#### EXECUTIVE MASTER OF INSURANCE:

Business Models and Current Challenges (Müller, Zeppezauer)  
Corporate Governance (Reichl)  
Digital Transformation in the Insurance Industry (Hess, Rawolle)  
General Business Administration (Hartung, Schiller)  
General Economics (Harhoff, Kocher, Kretschmer)  
Insurance Accounting (Gallasch, Knoller)  
Insurance Management and Economics – Principles (Richter)  
Insurance Marketing (Schwaiger)  
Law and Regulation (Brand, Schiller)  
Management Simulation Game (Klotzbücher, Schmidt)  
Mathematics Preparatory Course (Knoller)  
Quantitative Methods (Knoller)  
Risk Management (Bender)  
Risk Theory (Knoller)  
Seminar: Insurance Research Projects (Richter)

## 4. COURSES

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### 4.2

#### COURSES AT THE WORKGROUP IN FINANCIAL MATHEMATICS

##### SUMMER TERM 2020

##### **BACHELOR FINANCIAL MATHEMATICS:**

Angewandte Finanzmathematik (Perkkiö)

##### **MASTER FINANCIAL MATHEMATICS:**

Finanzmathematik III (Meyer-Brandis, Steibel)

Finanzmathematik IV (Gonon, Reitsam)

Intensive Course on Financial Simulation (Akhtari)

Numerical Methods for Financial Mathematics (Fries, Mazzon, Christodoulou)

Mathematic(al Statistic)s and Application of Machine Learning (Deckert)

Machine Learning and Algorithmic Differentiation (Fries, Wilbertz)

##### **ADDITIONAL SEMINARS:**

Pricing Inflation-linked Products (Wagner)

Forschungsseminar Finanzmathematik (Meyer-Brandis)

Oberseminar Finanz- und Versicherungsmathematik (Biagini, Czado, Glau, Klüppelberg, Meyer-Brandis, Scherer, Zagst)

Seminar on mathematical techniques for machine learning (Gonon)

Pricing and Hedging Techniques in Incomplete Markets: Mean-Variance Hedging and Risk Minimization (Zhang)



## 4. COURSES

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### WINTER TERM 2020/2021

#### **BACHELOR FINANCIAL MATHEMATICS:**

Finanzmathematik in diskreter Zeit (Gonon, Reitsam)

#### **MASTER FINANCIAL MATHEMATICS:**

Finanzmathematik II/Stochastic Calculus and Arbitrage Theory in Continuous Time (Meyer-Brandis, Steibel)

Computational Finance and its Object Oriented Implementation (Fries, Mazzon, Bachl)

Modellierung und Enterprise Management (Schreiber) (Bachelor and Master level)

Convex Stochastic Optimization (Perkkiö) (Bachelor and Master level)

#### **ADDITIONAL SEMINARS:**

Advanced Techniques in Machine Learning for Mathematical Finance (Gonon)

Credit Risk Modeling (Zhang)

Forschungsseminar Finanzmathematik (Meyer-Brandis)

Oberseminar Finanz- und Versicherungsmathematik (Biagini, Czado, Glau, Klüppelberg, Meyer-Brandis, Scherer, Zagst)

Versicherungsmathematisches Kolloquium (Benzing, Biagini, Feilmeier, Idstein, Meyer-Brandis, Oppel, Schneemeier)

## 5. COMPLETED DOCTORAL PROJECTS

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**Martin Bauer:** Mean-field Stochastic Differential Equations with Irregular Coefficients: Solutions and Regularity Properties

**Panagiotis Christodolou:** Local Risk-minimization under Illiquidity and Consistent Specification of Credit Migration Models

**Tobias Huber:** Essays on Household Behavior in Insurance Contexts – Theoretical Insights and Empirical Observations

**Christiane Kettenbrach:** Optionale Modelle als europäisches Regelungsinstrument, insbesondere im Versicherungsvertragsrecht

**Sophie-Madeleine Roth:** Essays on Determinants of Decision-Making under Risk

## 6. COMPLETED MASTER THESES (EXECUTIVE MASTER OF INSURANCE)

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Analysis of Organic and Inorganic Growth / Market Entry Strategies for the Southeast Asian Life Insurance Market

Automated Underwriting – Success Factors for the Implementation of a Digital Reinsurance Platform for Single Risk Business

Climate Change Risk Assessments in Insurance

Comparing Market Risk Modules: Solvency II Standard Formula, IAIS' Insurance Capital Standard and Internal Model

Governance of Digital Transformation Strategies in Insurance Companies – An Empirical Analysis

Impediments to and Enablers of the Introduction of Machine Learning Applications in the Insurance Industry – An Empirical Investigation

Insurance-Linked Securities for Long-Tail Exposure: An Economic Analysis of Potential Design, Business Models and Prospects of Alternative Capital

Pandemic Risk: Actuarial Impact on a Life Insurer

Peculiarities of the Insurability of Cyber Risks – Can Parametric Insurance do Better than the Traditional Product?

## 7. FINAL THESES

### 7.1

#### FINAL THESES AT THE INSTITUTE FOR RISK MANAGEMENT AND INSURANCE

##### **COMPLETED BACHELOR THESES:**

Ambiguity Preferences: Theory and Evidence  
 Analyzing Insurance Decisions in Laboratory Experiments  
 Are Flood Insurance Markets Prepared for Climate Change? – A Critical Review  
 Background Risks and Precautionary Effort  
 Behavioral Anomalies and Nudging: What Can Insurers Do when their Customers Behave Weird?  
 Covid-19, Climate Change, and Time Discounting  
 Decision-making under Risk – A Comparison between Expected Utility Theory and Prospect Theory  
 Do Groups Make Better Decisions? An Analysis of Group and Individual Decision-making  
 Does Solvency II's Standard Model Adequately Identify Pandemic and Cyber Risks?  
 Equilibrium Selection in Coordination Games  
 Exogenous and Endogenous Risk Determinants of COVID-19  
 Expected Utility Theory: Strengths and Weaknesses  
 Flood Insurance Markets Around the World – A Critical Review  
 Future Applications of Parametric Insurance: A Solution to the Coverage of Digital Risks?  
 Genetic Testing and Health Insurance Markets  
 Higher Degree Risk Preferences  
 How do External Shocks Affect Customer Behavior? On the Effects of COVID-19 on Stationary and Digital Insurance Distribution  
 How Does COVID-19 Affect the Insurance Industry? A Situation Analysis on Impacts and Insurance Solutions  
 Improving Household Decisions in Financial Contexts – Are Nudges Enough?  
 Insurance Solutions to Premium Risk in Health Insurance  
 Is Parametric Insurance the Breakthrough for Pandemic Disaster Risk Financing?  
 Life Insurance Cancellation Behavior in the Small and in the Large  
 Liquidity Constraints and Insurance  
 Microinsurance  
 Moral Hazard and the Development of New Technologies to Reduce Information Asymmetries  
 Moral Hazard in Health Insurance Markets  
 On Moral Hazard and Checklists  
 Pandemics: From Risk Perception to Risk Mitigation  
 Self-insurance-cum-protection  
 Solvency II Put to the Test  
 Testing for Adverse Selection in Health Insurance markets

## 7. FINAL THESES

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The Annuity Puzzle  
The Concept of Risk Aversion: Theory and Estimation  
The Demand for Disability Insurance  
The Demand for Extended Warranties  
The Determinants of Insurance Fraud and Possible Counter-Measures  
The Health Effects of Smoking Bans  
The Impact of Choice Overload on Insurance Decisions  
The Impact of Climate Change on the Insurance Industry  
The Impact of Disaster Events on Insurance Supply and Demand  
The Influence of Opt-Out Contracts on the Demand for Natural Disaster Insurance  
The Insurability of Pandemic and Cyber Risks – A Comparison  
The More, the Merrier? On the Impact of Big Data on Insurance  
The Nature and Management of Interdependent Risks  
The Role of Overconfidence in Economic Decision-Making  
The U.S. Market for Flood Insurance – Can the National Flood Insurance Program and the Private Market Coexist?  
The Weisbrod Quadrilemma

### COMPLETED MASTER THESES:

Determinants of Surviving Natural Catastrophes  
Does Hindsight Matter? The Impact of Feedback Availability on Risk Reduction Decisions  
Endogene Fertilität und öffentliche Rentenversicherungssysteme  
Experimental Tests of Underinsurance of Low-Probability, High-Consequence Events  
Gender-Specific Differences in Risky Health Behaviors and Preventive Care Utilization  
On the Empirical Validity of Prevention  
On the Utility of Gambling in the Presence of Consumption Commitments  
Optimal Insurance Demand: An Intertemporal Reinvestigation  
Regret Theory with Unknown Counterfactuals  
Robust Comparative Statics of Risk Changes: An Application to Precautionary Saving  
The Catastrophe Risk Management Implication of Ownership Form  
The Development of Enterprise Risks  
The Effect of Contract Nonperformance on Moral Hazard in Insurance Markets  
The Effect of Health Insurance Coverage on Preventive Care and Risky Health Behaviors  
The Effect of Insurance Fraud on Markets for Repair Goods  
The Effect of Organizational Form on Earnings Management in the Insurance Industry  
The Impact of Pre-Plant Precipitation on Crop Insurance Take-Up  
The Influence of Framing on Insurance Take-Up  
The Role of Prevention Activities Under Risk Type Uncertainty  
The Transformative Potential of 5G Technology for the Re-/Insurance Industry

## 7. FINAL THESES

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### MASTER THESES IN PROGRESS:

On the Interaction between Crop Yields and Weather

Quantifying Information in Risk Management Decisions

Sustainability in the Insurance Industry – A Situation Analysis

The Influence of Financial Literacy on Insurance Fraud

The U.S. Federal Crop Insurance Program and Information Asymmetries: Theoretical and Empirical Studies

Willingness to Pay for Morbidity and Mortality Risk Reductions During the COVID-19 Pandemic

Zur Bedeutung von Zusatzleistungen in der Privaten Krankenversicherung – Eine experimentelle Untersuchung

## 7. FINAL THESES

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### 7.2

#### FINAL THESES AT THE WORKGROUP IN FINANCIAL AND INSURANCE MATHEMATICS

##### **COMPLETED BACHELOR THESES:**

Arbitragemöglichkeiten über Flash Strategien  
Duality in Discrete Time Stochastic Control  
Dynamic Programming and Mean-Variance Hedging in Discrete Time  
Fair Estimation of Capital Risk Allocation  
Liquiditätsrisiko und kohärente Risikomaße  
Optimal Dividend Payment A Two-Dimensional Insurance Risk Process  
Partially Input Convex Neural Networks in Portfolio Optimization  
Pathwise Functional Itô Calculus and Applications to Path-Dependent Derivatives  
Portfolio Optimization with Respect to Utility Function  
Risk Preferences, Risk Measures and Risk Acceptance Families  
Sensitivity Analysis mit Hilfe von Risikomaßen  
Systemic Risk Measures on Gaussian Systems  
The Pricing-Hedging Duality for American Options in Discrete-Time Financial Markets  
Unbiased Estimation of Risk  
Verlustbasierte Risikomaße  
Vertiefung zum Cantelli Lemma - eine stochastische Beziehung zwischen der prospektiven und retroprospektiven Reserve

##### **COMPLETED MASTER THESES:**

A Dynamic Extreme Value Theory Approach  
An Approach to Equity Option Modeling in Stochastic and Local Volatility Frameworks  
Asymptotic Analysis of Large Sparse Networks  
Deep Hedging Bermudan Swaptions  
Detecting Bubbles in Bitcoin Price Dynamics via Market Exuberance  
Financial Contagion in the Interbank Market: Fire Sales and Price-Impact in a Multilayered Network  
Neural Network Based Numerical Methods for Backward Stochastic Differential Equations  
On Optimal Solutions and Fairness of Systematic Risk Measures  
Solving Optimal Stopping Problems Using Neural Networks  
Systemic Risk Measures via Acceptance Sets and Fair Systemic Risk Shares  
The Difference between the Hull White Model and the LIBOR Market Model regarding Credit Valuation Adjustment and Calibration Quality  
Time-Homogeneous LIBOR Market Model for the Valuation of Derivatives on Backward Looking Rates

## 7. FINAL THESES

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### MASTER THESES IN PROGRESS:

Deep Backward Multistep Schemes for Nonlinear Pdes and Applications to Finance

Deep Neural Network Approximations for Option Prices in Levy Models

Deep Reinforcement Learning for Portfolio Optimization

Learning with Random Features: Generalization Properties and Applications to Option Pricing

Machine Learning with Kernels for Portfolio Valuation and Risk Management

Portfolio Selection Under Systemic Risk

Signatures: Theory and Credit Cycle Forecasting

Tap Water Damage Insurance-Analysis with Combined Actuarial Neural Networks

VC Dimension-based Generalization Bounds for beta-mixing Time-Series

## 8. PUBLICATIONS

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**Beck C., Gonon L., Hutzenthaler M. and Jentzen A.:** On Existence and Uniqueness Properties for Solutions of Stochastic Fixed Point Equations, Discrete and Continuous Dynamical Systems - Series B, forthcoming.

**Biagini F., Doldi A., Fouque J.P., Frittelli M. and Meyer-Brandis T.:** Systemic Optimal Risk Transfer Equilibrium, Mathematics and Financial Economics, forthcoming.

**Biagini F., Fouque J.P., Frittelli M. and Meyer-Brandis T.:** On Fairness of Systemic Risk Measures, Finance & Stochastics, 24, 513-564.

**Biagini F., Gnoatto A. and Haertel M.:** General Analysis of Long-term Interest Rates, International Journal of Applied and Theoretical Finance, 23, 1.

**Biagini F., Huber T., Jaspersen J.G., Mazzon A.:** Estimating Extreme Cancellation Rates in Life Insurance, The Journal of Risk and Insurance, forthcoming.

**Born P. A., Müller S. and Tennyson S.:** Credible or Biased? An Analysis of Insurance Product Ratings in Germany, The International Review of Financial Consumers, 5,1, 25-39.

**Browne M. J., Hofmann A., Richter A., Roth S.-M. and Steinorth P.:** Peer Effects in Risk Preferences: Evidence from Germany, Annals of Operations Research, April 2020.

**Detering N., Meyer-Brandis T., Panagiotou K. and Ritter D.:** Financial Contagion in a Generalized Stochastic Block Model, International Journal of Theoretical and Applied Finance, 23, 8.

**Detering N., Meyer-Brandis T., Panagiotou K. and Ritter D.:** An Integrated Model for Fire Sales and Default Contagion, Mathematics and Financial Economics, 15, 59-101.

**Fries C. P.:** Stochastic Algorithmic Differentiation of (Expectations of) Discontinuous Functions (Indicator Functions), Journal of Computer Mathematics, forthcoming.

**Fries C. P.:** Dynamic Refinement of the Term Structure: Time-Homogeneous Term Structure Modeling, The Journal of Computational Finance, 24, 1, 1-27.

**Fries C. P. and Torricelli L.:** An Analytical Valuation Framework for Financial Assets with Trading Suspensions SIAM Journal on Financial Mathematics, 11, 2, 566-592.

**Gonon L., Grigoryeva L. and Ortega J.-P.:** Risk Bounds for Reservoir Computing, Journal of Machine Learning Research, 21, 240, 1-61.

**Gonon L., Muhle-Karbe J. and Shi X.:** Asset Pricing with General Transaction Costs: Theory and Numerics, Mathematical Finance, forthcoming.

**Gonon L. and Ortega J.-P.:** Reservoir Computing Universality with Stochastic Inputs, IEEE Transactions on Neural Networks and Learning Systems, 31, 1, 100-112.



## 8. PUBLICATIONS

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**Gonon L. and Teichmann J.:** Linearized Filtering of Affine Processes Using Stochastic Riccati Equations, Stochastic Processes and their Applications, 130, 1, 394-430.

**Gonon L., Grigoryeva L. and Ortega J.-P.:** Memory and Forecasting Capacities of Nonlinear Recurrent Networks, Physica D, 414, 132721, 1-13.

**Kalinin A.:** Support Characterization for Regular Path-dependent Stochastic Volterra Integral Equations, Electronic Journal of Probability, forthcoming.

**Kalinin A. and Cont R.:** On the Support of Solutions to Stochastic Differential Equations with Path-dependent, Stochastic Processes and their Applications, 130, 5, 2639-2674.

**Kalinin A.:** Markovian Integral Equations, Annales de l'Institut Henri Poincaré, 56, 1, 155-174.

**Li L.:** Opening up the Black Box: Technological Transparency and Prevention, The Journal of Risk and Insurance, forthcoming.

**Ragin M., Collier B. and Jaspersen J.G.:** The Effect of Information Disclosure on Demand for High-Load Insurance, The Journal of Risk and Insurance, forthcoming.

**Richter A. and Wilson T.:** Covid-19: Implications for Insurer Risk Management and the Insurability of Pandemic Risk, The Geneva Risk and Insurance Review Special Issue, 45, 171-199.

## 9. WORKING PAPERS

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**Akhtari B., Biagini F., Mazzon A. and Oberpriller K.:** Generalized Feynman-Kac Formula under Volatility Uncertainty.

**Argyris N., Jaspersen J.G. and Richter A.:** Calibrating Risk Aversion in Additive Multivariate Utility Functions.

**Banos D., Bauer M., Meyer-Brandis T. and Proske F.:** Restoration of Well-Posedness of Infinite-dimensional Singular ODE's via Noise.

**Bauer M. and Meyer-Brandis T.:** Strong Solutions of Mean-Field SDEs with Irregular Expectation Functional in the Drift.

**Bauer M. and Meyer-Brandis T.:** Existence and Regularity of Solutions to Multi-Dimensional Mean-Field Stochastic Differential Equations with Irregular Drift.

**Bauer M. and Meyer-Brandis T.:** McKean-Vlasov Equations on Infinite-dimensional Hilbert Spaces with Irregular Drift and Additive Fractional Noise.

**Biagini F., Mazzon A. and Perkkiö A.-P.:** Optional Projection under Equivalent Local Martingale Measures.

**Biagini F. and Oberpriller K.:** Reduced-form Setting under Model Uncertainty with Non-linear Affine Intensities.

**Browne M., Lin X., Richter A. and Steinacker R.:** On the Trade-Off Between Moral Hazard and Basis Risk: Evidence from Area Contracts in the U.S. Federal Crop Insurance Program.

**Christodoulou P., Fries C., Meyer-Brandis T. and Torricelli L.:** Complications in Intensity-based Credit Migration Bond Models of HJM Type.

**Collier B., Huber T., Jaspersen J.G. and Richter A.:** How Do Households Respond to Public Program Reforms? Evidence from the U.S. National Flood Insurance Program.

**Cuchiero C., Grigoryeva L., Gonon L., Ortega J.-P. and Teichmann J.:** Discrete-time Signatures and Randomness in Reservoir Computing.

**Detering N., Meyer-Brandis T., Panagiotou K. and Ritter D.:** Suffocating Fire Sales.

**Ericson K., Jaspersen J.G. and Zoller S.:** Risk Management and the Autonomy of Labor.

**Gonon L., Grigoryeva L., Ortega J.-P.:** Approximation Bounds for Random Neural Networks and Reservoir Systems.

**Gonon L. and Ortega J.-P.:** Fading Memory Echo State Networks are Universal.

## 10. WORKING PAPERS

**Gonon L. and Schwab C.:** Deep ReLU network expression rates for option prices in high-dimensional, exponential Lévy models.

**Heidler B. and Steinorth P.:** Health Insurance, Chronic Disease and the Affordable Care Act: How Important are Selection Effects?

**Heidler B., Johannes J. G., Pooser D. M. and Richter A.:** Managerial Discretion and Variable Risk Preference.

**Huber M.:** An Economic Theory of Resource Conflict.

**Huber M., Jaspersen J. G. and Richter A.:** The Effect of Large Terrorism Events on the GDP of the Attacked Countries.

**Huber T.:** Comparative Risk Aversion in Two Periods: An Application to Self-Insurance and Self-Protection.

**Huber T., Jaspersen J.G., Richter A. and Strümpel D.:** On the Change of Risk Aversion in Wealth: Evidence from a Closed Economic System.

**Jaspersen J.G.:** Convex Combinations in Judgment Aggregation.

**Jaspersen J.G., Ragin M. and Sydnor J.:** Predicting Insurance Demand from Risk Attitudes.

**Jaspersen J.G., Richter A., Rothschild C. and Steinacker R.:** Moral Hazard in a Social Health Insurance System: Demand and Supply Reactions to a Natural Experiment in Germany.

**Jaspersen J.G., Richter A. and Zoller S.:** Predicting Earnings Management from Qualitative Disclosures.

**Li L. and Peter R.:** Should We Do More When We Know Less: Optimal Risk Mitigation Under Technological Uncertainty.

**Li L., Richter A. and Steinorth P.:** Mental Health Changes and the Willingness to Take Risks.

**Li L., Mürmann A. and Richter A.:** Public Knowledge, Privacy, and the Prevention of Interdependent Risks.

**Perkkiö A.-P. and Pennanen T.:** Topological Duals of Locally Convex Spaces.

**Peter R., Richter A. and Thistle P.:** Ambiguity Aversion in Competitive Insurance Markets: Adverse and Advantageous Selection.

**Roth S.-M.:** The Impact of Non-Economic Shocks on Interpersonal Trust.

**Roth S.-M., Hofmann A. and Jaspersen J.G.:** The Effects of Terrorism Risk on Household Savings.

**Steinacker R.:** Effort in Area-Based Index Contracts and the Role of the Indemnity Function.

**Zoller S.:** On the Role of Ownership form and Disclosure Choices.

## 10. CONFERENCE PRESENTATIONS AND INVITED LECTURES

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SIAG/FME virtual seminar series, online, October 2020: Reduced-form Setting under Model Uncertainty with Non-linear Affine Intensities (Biagini)

Bachelier seminar, online, November 2020: Reduced-form Setting under Model Uncertainty with Non-linear Affine Intensities (Biagini)

Quantlab Workshop „Machine Learning and Algorithmic Differentiation“, Munich, Germany, February 2020: Algorithmic differentiation (Fries)

Probability Seminar, Universität Duisburg Essen, online, November 2020: Deep ReLU Network Expression Rates for Option Prices in High-dimensional, Exponential Lévy Models (Gonon)

Mathematisches Kolloquium, LMU Munich, online, November 2020: Dynamic Learning for Stochastic Processes: Neural Networks, Reservoir Computing Systems and Applications to Mathematical Finance (Vorstellung zur Habilitation) (Gonon)

Allied Social Sciences Annual Meeting 2020, San Diego, USA, January 2020: How Do Households Respond to Public Program Reforms? Evidence from the U.S. National Flood Insurance Program (Huber, T.)

World Risk and Insurance Economics Congress 2020, online, August 2020: How Do Households Respond to Public Program Reforms? Evidence from the U.S. National Flood Insurance Program (Huber, T.)

14th Bachelier Colloquium on Mathematical Finance and Stochastic Calculus, Metábief, France, January 2020: Support Characterization for Regular Path-Dependent Stochastic Volterra Integral Equations (Kalinin)

World Risk and Insurance Economics Congress 2020, online, August 2020: Public Knowledge, Private Information, and the Prevention of Interdependent Risks (Li)

Research Seminar, Universität Mannheim, Mannheim, Germany, February 2020: Dynamic Programming and Duality in Convex Stochastic Optimization (Perkkiö)

VGA Assekuranzclub München und Berufsbildungswerk der Versicherungswirtschaft München Podiumsdiskussion, online, Oktober 2020: Versicherbarkeit von Pandemie-Risiken (Richter)

World Risk and Insurance Economics Congress 2020, online, August 2020: The Impact of Different Non-Economic Shocks on Interpersonal Trust (Roth)

## 10. CONFERENCE PRESENTATIONS AND INVITED LECTURES

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World Risk and Insurance Economics Congress 2020, online, August 2020: Moral Hazard in a Social Health Insurance System: Demand and Supply Reaction (Steinacker)

World Risk and Insurance Economics Congress 2020, online, August 2020: The Role of Area Contracts in the U.S. Federal Crop Insurance Program (Steinacker)

University of Georgia Ph.D. Symposium, Athens, USA, February 2020: A Machine Learning Approach to Predicting Earnings Management (Zoller)

World Risk and Insurance Economics Congress 2020, online, August 2020: A Machine Learning Approach to Predicting Earnings Management (Zoller)

## 11. AWARDS, GRANTS AND SCHOLARSHIPS

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Ernst-Meyer-Prize 2020 (Li)

Förderpreis der Universitätsgesellschaft für hervorragende Promotionsleistungen 2020 (Li)

ARIA Early Career Scholarly Achievement Award (Peter)

Stipendium, Verein zur Förderung der Versicherungswissenschaft in München e.V. (Reitsam)

## 12. DOCTORAL WORKSHOPS

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MRIC Winter Workshop 2020, Munich/St. Johann, January 2020

## 13. DOCTORAL RESEARCH IN PROGRESS

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**Bachl, Roland:** The Impact of Smart Derivative Contracts on Systemic Risk in Financial Networks

**Heidler, Benjamin:** Essays on Risk and Insurance

**Holzapfel, Julia:** Essays on Risk Management and Insurance

**Oberpriller, Katharina:** Mathematical Models for Insurance Markets

**Reitsam, Thomas:** Asset Price Bubbles in Financial Market Models with Transaction Costs

**Steibel, Annika:** Stability Analysis of Pandemic Models

**Steinacker, Roxane:** Essays on Moral Hazard in Insurance Markets

**Stöckl, Elisabeth:** Essays on Risk Management and Insurance

**Strümpel, Dennis:** Essays on Risk Management and Insurance

**Zoller, Sandra:** Essays on Risk Management and Insurance

## 14. ACADEMIC VISITORS TO THE MRIC

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Prof. Patricia Born, Ph.D. (Florida State University)  
Prof. James Carson (University of Georgia)  
Prof. David Eckles (University of Georgia)  
Prof. Martin Halek (University of Calgary)  
Prof. Martin Kocher (University of Vienna)  
Prof. Tyler Leverty (University of Wisconsin-Madison)  
Prof. Alexander Mürmann (WU Vienna)  
Prof. Dr. Teemu Pennanen (King's College London)  
Prof. Casey Rothschild (Wellesley College)  
Prof. Jörg Schiller (University of Hohenheim)

## 15. EXCHANGE PROGRAMS

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### **STUDENT EXCHANGE:**

The MRIC collaborates with the Florida State University, the St. John's University and the Georgia State University for exchange programs in the field of risk and insurance. Additionally, the MRIC collaborates with the Université Paris Saclay and the University of Bologna for a double degree in Business Mathematics.

### **DOCTORAL EXCHANGE:**

Katharina Oberpriller, Gran Sasso Science Institute

Sandra Zoller, Boston University

## 16. PRESENTATIONS IN MRIC SEMINAR SERIES

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### **RISK & MICROECONOMICS SEMINAR (PRESENTATIONS BY MRIC VISITORS)**

**Andreas Milidonis (University of Cyprus):** Limited Attention for Institutional Investors (01/30/2020)

**Bojan Srbinoski (University Carlo Cattaneo – LIUC):** Life Insurance Demand and Borrowing Constraints (01/28/2020)

### **BUSINESS MODELS & CURRENT CHALLENGES**

**Thomas Bischof (Württembergische Versicherungen):** Regulation is Like Cement: It's about How you Use it (09/24/2020)

**Dr. Christian Brandt (andsafe AG):** andsafe - Building a Digital Attacker on the German SME market (10/21/2020)

**Dr. Thomas Rodewis (Versicherungskammer Bayern):** Building an Innovation Process for an Insurance Company (10/23/2020)



## 17. EVENTS HOSTED BY THE MRIC

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**Dr. Gunther Kraut (Munich Re):** Epidemic Risk Insurance: Challenges, Products and Market Development (11/20/2020)

**Robert Dietrich (HISCOX Deutschland) and Franziska Schaefer (HISCOX SA):** Cyber Insurance: Market Development and Challenges Regarding Products and Marketing (11/24/2020)

**Irina Fan (Swiss Re Institutes):** Why Gender Equality Matters for Insurance (11/25/2020)

**Nico Ahn (Allianz SE):** Integrating Sustainability in Insurance and Investment - The Allianz Group ESG Approach (01/29/2021)

### SEMINARS

Risk & Microeconomics Seminar: Open seminar series offering presentations of international guest lecturers

Risk & Insurance Research Seminar (internal research seminar of the Institute for Risk Management and Insurance)

### COURSES HELD BY INTERNATIONAL GUEST LECTURERS

Prof. Patricia Born (Proseminar: Catastrophe Risk Management)

Prof. Richard Peter (MBR-Course: Microeconomic Modeling Methods)

### GUEST LECTURES

**Prof. Dr. Jörg Schiller (University of Hohenheim)** in the lecture **Risiko und Versicherung:** Versicherungstechnische Risikopolitik.

**Dr. Gunther Kraut (Munich Re)** in the lecture **Risiko und Versicherung:** Epidemic Risk Insurance: Challenges, Products and Market Development.

**Dr. Klaus Math (Lebensversicherung von 1871 VVaG)** in the lecture **BWL in Theorie und Praxis:** Die Versicherung existenzieller Lebensrisiken – eine spannende Herausforderung.

## 18. PROFESSIONAL BOARD MEMBERSHIPS AND ACADEMIC SERVICE

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### 18.1

PROF. DR. JUR. THOMAS ACKERMANN, LL.M. (CAMBRIDGE)

Director of the Cambridge-LMU Strategic Partnership

Editorial Board, Common Market Law Review

Editorial Board, Neue Zeitschrift für Kartellrecht

Head and Coordinator of the MUST (Munich University Summer Training) Program in German and European Law

Member of the Selection Committee “Juristische Bücher des Jahres“

Referee for National and International Academic Organizations and Institutions (DFG, DAAD, Studienstiftung, NVAO, EUJ)

### 18.2

PROF. DR. FRANCESCA BIAGINI

President of the Bachelier-Finance Society

Vice-President of LMU for International Affairs and Diversity

### 18.3

PROF. DR. MEYER-BRANDIS

Co-director of the quantLab@LMU: Computer Laboratory for Quantitative Risk Control

Member of the managing board of the German Data Science Society

Member of the advisory board of the Frankfurter Institut für Risikomanagement und Regulierung (FIRM)

## 18. PROFESSIONAL BOARD MEMBERSHIPS AND ACADEMIC SERVICE

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### 18.4

#### PROF. DR. ANDREAS RICHTER

Vice Dean, Munich School of Management

Academic Director, Executive Master of Insurance Program

Past President, American Risk and Insurance Association

Executive Board, European Group of Risk and Insurance Economists

International Advisory Board, Risk and Insurance Research Center, National Chengchi University, Taiwan

Advisory Board, SKKU Graduate School of Insurance, South Korea

Advisory Board, Federal Financial Supervisory Authority (BaFin)

Advisory Board, Insurance Ombudsmann

Finanzplatz München Initiative

Associate Editor, Geneva Risk and Insurance Review

Editorial Board, Geneva Papers on Risk and Insurance – Issues and Practice

# IMPRINT

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## **Executive Board**

Prof. Dr. jur. Thomas Ackermann, LL.M. (Cambridge)  
Prof. Dr. Francesca Biagini  
Prof. Dr. Johannes Jaspersen  
Dr. Stephanie Müller  
Prof. Dr. Andreas Richter

## **Program Coordinator**

Dr. Stephanie Müller

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This report refers to the calendar year 2020. For seminar series or courses, which can be attributed to one semester, the report refers to the summer term 2020 and the winter term 2020/2021. With regard to final theses this report lists papers submitted within the calendar year 2020.

Facts concerning the Workgroup in Financial and Insurance Mathematics and the Chair for Civil Law, European and International Business Law are reported whenever they reflect topics related to the field of risk management and insurance.





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