# Dr. Christoph Hambel

## *Curriculum Vitae*

*House of Finance HoF 2.39*
*Goethe University Frankfurt*
*+49 176 644 702 89*
*christoph.hambel@hof.uni-frankfurt.de*
*www.christoph-hambel.de*

## Personal Data

Birthday/-place August 12, 1988; Frankenthal, Germany

Office House of Finance 2.39, Goethe University Frankfurt, Theodor-W.-Adorno-Platz 3 (Uni-Pf. H 35)

## Research Interests

Actuarial Science, Asset Pricing, Climate Finance, Environmental Economics, Household Finance, Quantitative Finance

## Academic Positions

from 08/2022 Assistant Professor in Quantitative Finance (tenure track), Tilburg University, Tilburg School of Economics and Management, Department of Econometrics and Operations Research

04/2022-09/2022 Lecturer, Goethe Business School

01/2019-07/2022 Postdoctoral Researcher, Goethe University Frankfurt, Faculty of Economics and Business, Department of Finance
- funded by the Deutsche Forschungsgemeinschaft (German Research Foundation)

04/2013-12/2018 Research Assistant, Goethe University Frankfurt, Faculty of Economics and Business, Department of Finance
- partly funded by the Deutsche Forschungsgemeinschaft (German Research Foundation)
- partly funded by the LOEWE research center SAFE (Sustainable Architecture for Finance in Europe)

02/2013-03/2013 Ph.D. Scholarship Holder, Goethe University Frankfurt, Faculty of Economics and Business, Department of Finance

04/2010-09/2012 Teaching Assistant, University of Kaiserslautern, Department of Mathematics

## Education

12/2018 Dr. rer. pol. in financial economics (Ph.D. equivalent), Goethe University Frankfurt, Faculty of Economics and Business, Dissertation: *Essays on Optimal Carbon Pricing and Life Cycle Portfolio Choice* (summa cum laude)

04/2012 Dipl.-Math. oec. (B.Sc. and M.Sc. equivalent), University of Kaiserslautern, Department of Mathematics, Diploma Thesis: *The Numéraire Portfolio in Semimartingale Financial Market Models*

## Publications

Solving Life Cycle Problems with Biometric Risk by Artificial Insurance Markets (with Holger Kraft and Claus Munk), *Scandinavian Actuarial Journal*, Issue 4, 307-327, 2022

The Social Cost of Carbon in a Non-cooperative World (with Holger Kraft and Eduardo S. Schwartz), *Journal of International Economics* 131, 103490, 2021

Optimal Carbon Abatement in a Stochastic Equilibrium Model with Climate Change (with Holger Kraft and Eduardo S. Schwartz), *European Economic Review* 132, 103642, 2021

Health Shock Risk, Critical Illness Insurance, and Housing Services, *Insurance: Mathematics and Economics* 91, 111-128, 2020

Life Insurance Demand under Health Shock Risk (with Holger Kraft, Lorenz S. Schendel, and Mogens Steffensen), *Journal of Risk and Insurance* 84 (4), 1171-1202, 2017

## Current Research

Working Papers: Asset Diversification vs. Climate Action (with Holger Kraft and Frederick van der Ploeg), CESifo Working Paper 8476

When Should Retirees Tap Their Home Equity? (with Holger Kraft and André Meyer-Wehmann), SAFE Working Paper 293

Recalculating the Social Cost of Carbon (with Soheil Shayegh, Valentina Bosetti, Simon Dietz, Johannes Emmerling, Svenn Jensen, Holger Kraft, Massimo Tavoni, Christian P. Traeger, and Frederick van der Ploeg), FEEM Working Paper 19.2018

The Carbon Abatement Game (with Holger Kraft and Eduardo S. Schwartz), NBER Working Paper w24604

Work in Progress: Asset Prices and the Price of Carbon in a Non-cooperative World

Asset Pricing under Climate Transition Risk (with Holger Kraft and Frederick van der Ploeg)

Optimal Investment and Insurance Demand under Climate Risk

Stranded Assets under Climate Transition Risk (with Holger Kraft and Frederick van der Ploeg)

## Popular Media

$CO_2$-Vermeidung und Diversifikation: Wie beeinflussen finanzwirtschaftliche Motive $CO_2$-Emissionen? (with Holger Kraft and Frederick van der Ploeg) *Ökonomenstimme*, September 2020.

## Awards

2021 Best teaching award ("Student Council Award for Excellent Teaching") of the student council of the Faculty of Economics and Business at the Goethe University Frankfurt, *Financial Derivatives and Risk Management*

2021 Sturm & Drang Prize for the best publication by a young researcher of the Faculty of Economics and Business at the Goethe University Frankfurt, *The Social Cost of Carbon in a Non-cooperative World*

2019 Best paper award in finance and economics at IRMBAM-2019, *The Carbon Abatement Game*

## Presentations

2022 Finance Brown Bag Seminar at Goethe University Frankfurt, *Invited talk:* QFAS Reading Group at Tilburg University, *Invited talk:* Macro Seminar Series at the Albert-Ludwigs-University Freiburg

2021 *Invited talk:* Finance Seminar Series at the Lund University, *Invited talk:* Finance Brown Bag Seminar at the University of Southern Denmark, DGF 27th Annual Meeting, SED 2020 Conference* (rescheduled), Finance Brown Bag Seminar at Goethe University Frankfurt

2020 CEF 26th International Conference, *Invited talk:* Virtual Conference on Climate Risk Metrics (ESG Investing), SURED 2020 Conference, Virtual Seminar on Climate Economics* (Federal Reserve Bank of San Francisco), EEA 34th Annual Congress, EFA 47th Annual Meeting*, EAERE 25th Annual Conference

2019 EEA 33rd Annual Congress*, EAERE 24th Annual Conference*, IRMBAM-2019 Conference

2018 *Invited talk:* ifo Climate Macro Workshop, *Invited talk:* FEEM Robust Policy Workshop

2017 *Invited talk:* EAERE 23rd Annual Conference, Finance Brown Bag Seminar at Goethe University Frankfurt

2015 Frankfurt-Mannheim Macro Workshop

*) presentation by co-author

## Academic Service

2013, 2016 Co-organizer of the Finance Seminar Series at the Goethe University Frankfurt, jointly with the research center SAFE (with Holger Kraft and Thomas Mosk)

## Refereeing

Academic Journals: Environmental and Resource Economics, Financial Markets and Portfolio Management, Insurance: Mathematics and Economics, Journal of Credit Risk, Journal of Economic Dynamics and Control, Journal of Environmental Economics and Management, Journal of Risk and Insurance, Journal of the Association of Environmental and Resource Economists, Mathematical Methods of Operations Research, Social Choice and Welfare, SN Business & Economics, Technological Forecasting & Social Change

Other: Cambridge University Press, ECB Working Paper Series, SAFE Asset Pricing Workshop 2021

## Research Grants

2018 German Research Foundation (DFG), project 416567127, *Climate Finance: What is the influence of climate change on asset prices?* (principal applicant: Holger Kraft), 250,000€.

2015 German Research Foundation (DFG), project 269126390, *Non-financial life-cycle decisions and their implications on consumption-portfolio choice with unspanned labor income* (principal applicant: Holger Kraft), 180,000€.

## Teaching Experience

from 08/2022 Tilburg School of Economics and Management, *Lectures*

- *Asset Liability Management* (2023), graduate
- *Life Insurance* (2023), undergraduate
- *Valuation and Risk Management* (2022), graduate

10/2019-07/2022 Goethe University Frankfurt and Goethe Business School, *Lectures*

- *Advanced Financial Economics I* (2019, 2020, 2021), graduate
- *Capital Markets and Asset Pricing* (2022), graduate
- *Financial Derivatives and Risk Management* (2021), undergraduate

04/2013-07/2020 Goethe University Frankfurt and Goethe Business School, *Teaching Assistant*, graduate courses

- *Advanced Financial Economics I* (2015, 2016)
- *Capital Markets and Asset Pricing* (2014, 2015, 2017, 2018)

- *Credit Risk* (2020)
- *Dynamic Asset Allocation and Applications* (2014)
- *Financial Decisions and Markets* (2018, 2019, 2020)
- *Master Thesis Seminar* (2013)

10/2010-07/2012 University of Kaiserslautern, *Teaching Assistant*, undergraduate courses, taught in German

- *Applied Mathematics: Stochastic Methods* (2010)
- *Higher Mathematics I* (2012)
- *Higher Mathematics II* (2011)
- *Higher Mathematics III* (2011)
- *Preparation Class for Mathematics* (2010, 2011)
- *Statistics II for Economists* (2012)

## Other Information

Languages German (native), English (fluent), French (basic knowledge)

Software C#, LaTeX, Matlab, Python, R, SQL, Stata, VBA