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Dr. Christoph Hambel

Curriculum Vitae

Personal Data

Birthday/-place August 12, 1988; Frankenthal, Germany
Office Room K 513, Tilburg University, P.O.box 90153, 5000 LE Tilburg, The Netherlands

Research Interests

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

Academic Positions

since 08/2022 **Assistant Professor of Quantitative Finance and Actuarial Science** (tenure track), Tilburg University, Tilburg School of Economics and Management (TiSEM), Department of Econometrics and Operations Research

04/2022-09/2022 **Lecturer**, Goethe Business School (GBS), Frankfurt

01/2019-07/2022 **Postdoctoral Researcher**, Goethe University Frankfurt, Faculty of Economics and Business, Department of Finance
- funded by 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 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**, Technical 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), Technical University of Kaiserslautern, Department of Mathematics, Diploma Thesis: *The Numéraire Portfolio in Semimartingale Financial Market Models*

Publications

6. **When Should Retirees Tap Their Home Equity?** (with Holger Kraft and André Meyer-Wehmann), *Journal of Banking & Finance*, Vol. 154, 106967, 2023
5. **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
4. **The Social Cost of Carbon in a Non-cooperative World** (with Holger Kraft and Eduardo S. Schwartz), *Journal of International Economics*, Vol. 131, 103490, 2021
3. **Optimal Carbon Abatement in a Stochastic Equilibrium Model with Climate Change** (with Holger Kraft and Eduardo S. Schwartz), *European Economic Review*, Vol. 132, 103642, 2021
2. **Health Shock Risk, Critical Illness Insurance, and Housing Services**, *Insurance: Mathematics and Economics*, Vol. 91, 111-128, 2020
1. **Life Insurance Demand under Health Shock Risk** (with Holger Kraft, Lorenz S. Schendel, and Mogens Steffensen), *Journal of Risk and Insurance*, Vol. 84 (4), 1171-1202, 2017

Working Papers

Asset Diversification vs. Climate Action (with Holger Kraft and Frederick van der Ploeg), CESifo Working Paper 8476, Revise and Resubmit at *International Economic Review*

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)

Energy Consumption and Household Portfolio Choice (with Jochem de Bresser)

Optimal Investment and Insurance Demand under Climate Risk

Three Reasons to Price Carbon: Accuracy of Simple Rules (with Ton van den Bremer 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

2024 Environmental Economics Seminar at Tilburg University, *Invited talk:* LUISS University Rome, *Invited talk:* Macro Seminar Series at the Albert-Ludwigs-University Freiburg

2023 *Invited talk:* Deutsche Gesellschaft für Versicherungs- und Finanzmathematik (DGVFM), 29th Annual Meeting of the German Finance Association (DGF) (presentation / discussant), 2023 annual meeting of the Society of Economics of the Household (SEHO) at the University of Copenhagen (cancelled), *Invited talk:* Second Workshop on Energy, Climate, and ESG at the University of Oslo, *Invited talk:* Potsdam Institute for Climate Impact Research, Economics Workshop at Tilburg University, Dutch Environmental and Resource Economist Day 2023 (DEARED), QFAS Workshop at Tilburg University

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, *Invited talk:* EcoStat Seminar at Tilburg University

2021 *Invited talk:* Finance Seminar Series at Lund University, *Invited talk:* Finance Brown Bag Seminar at the University of Southern Denmark, 27th Annual Meeting of the German Finance Association (DGF) (presentation / discussant / session chair), 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 (presentation / discussant / session chair)

2019 EEA 33rd Annual Congress*, EAERE 24th Annual Conference*, IRMBAM-2019 Conference (presentation / discussant)

2018 *Invited talk:* ifo Climate Macro Workshop, *Invited talk:* FEEM Robust Policy Workshop (presentation / panelist)

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

since 09/2023 **Member of the Education Committee MSc EME/QFAS** at Tilburg University (representing QFAS)

since 01/2023 **Co-organizer of the QFAS Workshop** (Quantitative Finance and Actuarial Science) at Tilburg University, `www.qfas-tilburg.nl` (with Anne Balter and Nikolaus Schweizer)

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)

Third-party Funding

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€.

Refereeing

Academic Journals: Environmental and Resource Economics, Financial Markets and Portfolio Management, Insurance: Mathematics and Economics, Journal of Climate Finance, 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, 2022)

Teaching Experience

since 08/2022 **Tilburg School of Economics and Management** (TiSEM), *Lectures*
- *Asset Liability Management* (2023, 2024), graduate
- *Life Insurance* (2023, 2024), undergraduate
- *Valuation and Risk Management* (2022, 2023, 2024), graduate

since 08/2022 **Tilburg School of Economics and Management** (TiSEM), *Bachelor and Master Thesis Supervision*

10/2019-07/2022 **Goethe University Frankfurt** and **Goethe Business School** (GBS), *Lectures*
- *Advanced Financial Economics I* (2019, 2020, 2021), graduate
- *Capital Markets and Asset Pricing* (2022), graduate
- *Financial Derivatives and Risk Management* (2021), undergraduate (taught in German)

04/2013-07/2020 **Goethe University Frankfurt** and **Goethe Business School** (GBS), *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)

04/2013-07/2022 **Goethe University Frankfurt** and **Goethe Business School** (GBS), *Bachelor and Master Thesis Supervision*

10/2010-07/2012 **Technical 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, Mathematica, Matlab, Python, R, SQL, Stata, VBA

Personal Status Married, one child (born 2021)