

Dr. Christoph Hambel

Curriculum Vitae

Assistant Professor
Tilburg University

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Personal Data

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

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Research Interests

Macroeconomics (Climate Policy, Environmental Economics, Financial Economics, International Economics)

Quantitative Finance (Asset Pricing, Climate Finance, Life Cycle Portfolio Choice)

Current Position and Affiliations

since 04/2024 **Assistant Professor of Quantitative Finance and Economics**, Tilburg University, Tilburg School of Economics and Management (TiSEM), Department of Econometrics and Operations Research, *tenured*

since 05/2024 **Research Fellow**, Network for Studies on Pensions, Aging and Retirement (Netspar)

Academic Positions

08/2022–03/2024 **Assistant Professor of Quantitative Finance and Economics**, Tilburg University, Tilburg School of Economics and Management (TiSEM), Department of Econometrics and Operations Research, *tenure-track*

04/2022–07/2022 **Lecturer**, Goethe Business School (GBS), Frankfurt

01/2019–07/2022 **Postdoctoral Researcher**, Goethe University Frankfurt, Faculty of Economics and Business, Department of Finance, Chair of Asset Pricing

- funded by Deutsche Forschungsgemeinschaft (German Research Foundation)

04/2013–12/2018 **Research Assistant**, Goethe University Frankfurt, Faculty of Economics and Business, Department of Finance, Chair of Asset Pricing

- 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

8. **Green Investors and the Return on Capital in General Equilibrium** (with Sijmen Duineveld and Kai Lessmann), *Economics Letters*, Vol. 247, 112149, 2025
7. **Asset Diversification versus Climate Action** (with Holger Kraft and Frederick van der Ploeg), *International Economic Review*, Vol. 65, 1323–1355, 2024
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 (Winner of the Sturm & Drang Prize, 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, 1171–1202, 2017

Working Papers

Pricing in Transition and Physical Risks: Carbon Premiums and Stranded Assets (with Frederick van der Ploeg), 2024, Reject & Resubmit at *Journal of Monetary Economics*

Reevaluating the Carbon Premium: Evidence of Green Outperformance (with Floor van der Sanden), 2024, Revise & Resubmit at *International Review of Financial Analysis*

Three Reasons to Price Carbon under Uncertainty: Accuracy of Simple Rules (with Ton van den Bremer and Frederick van der Ploeg), 2024, CEPR Discussion Paper 19645, Revise & Resubmit at *Quantitative Economics*

Permanent Working Papers

Recalculating the Social Cost of Carbon (with Soheil Shayegh, Valentina Bosetti, Simon Dietz, Johannes Emmerling, Sverre Jensen, Holger Kraft, Massimo Tavoni, Christian P. Traeger, and Frederick van der Ploeg), 2018, FEEM Working Paper 19.2018

The Carbon Abatement Game (with Holger Kraft and Eduardo S. Schwartz), 2018, NBER Working Paper w24604

Work in Progress

Asset Pricing and the Price of Carbon in a Non-cooperative World (with Ton van den Bremer and Frederick van der Ploeg)

Asset Pricing, Monetary Policy, and Physical Climate Risk (with Carina Fleischer)

Biodiversity Risks and the Carbon Premium (with Frederick van der Ploeg and Yasmine van der Straten)

Energy Consumption and Household Portfolio Choice (with Carina Fleischer and Marlene Koch)

Portfolio Choice for Regret-Averse Investors (with Djep Doreleijers)

Public Infrastructure Delays and Transition Risks (with Beatriz Gaitan, Kai Lessmann, and Ibrahim Tahri)

Media Coverage

A New Way to Price Carbon: Understanding the Social Cost of Carbon (with Ton van den Bremer and Frederick van der Ploeg), *VoxEU*, December 2024.

CO₂-Vermeidung und Diversifikation: Wie beeinflussen finanzwirtschaftliche Motive CO₂-Emissionen? (with Holger Kraft and Frederick van der Ploeg), *Ökonomenstimme*, September 2020.

Awards

- 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*
- 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*
- 2019 **Best Paper Award** in finance and economics at IRMBAM-2019, *The Carbon Abatement Game*

Grants and Third-party Funding

- 2024 **Tilburg University**, *Starter Grant* in terms of the *2022 Administrative Agreement on Higher Education and Science*, 255,000€
- 2018 **German Research Foundation** (DFG), project 416567127, *Climate Finance: What is the influence of climate change on asset prices?* (primary 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* (primary applicant: Holger Kraft), 180,000€

Academic Service

- since 12/2023 **Recruiting Interviewer**, Department of Econometrics and Operations Research, Tilburg University
- since 09/2023 **Member of the Education Committee MSc BAOR/ECO/EME/QFAS**, TiSEM, Tilburg University (representing EME and QFAS)
- since 09/2023 **Webadministration of the Environmental Economics Seminar** at Tilburg University, www.envecon-tilburg.nl (with Etienne Lorang)
- 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 Goethe University Frankfurt, jointly with the research center SAFE (with Holger Kraft and Thomas Mosk)

Presentations

- 2025 *Invited talk*: Workshop on Macro Models of Climate Change at University of Freiburg; Environmental Economics Seminar at Tilburg University

- 2024 *Invited talk:* Environmental Economics Seminar at University of Bologna; *Invited talk:* Macro Seminar Series at the Albert-Ludwigs-University Freiburg; *Invited talk:* Netspar Pension Day (discussant); QFAS Seminar at Tilburg University; EEA 39th Annual Congress; EAERE 29th Annual Conference; SURED 2024 Conference; Theories and Methods in Macro (T2M) Conference; Dutch Environmental and Resource Economist Day 2024 (DEARE); Environmental Economics Seminar at Tilburg University; QFAS Workshop at Tilburg University; *Invited talk:* DEF Research Seminar at Luiss Guido Carli
- 2023 *Invited talk:* Deutscher Verein für Versicherungswirtschaft (DVfVW); *Invited talk:* ASMF Brown Bag Seminar at University of Amsterdam; 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 (DEARE); QFAS Seminar at Tilburg University
- 2022 Finance Brown Bag Seminar at Goethe University Frankfurt; *Invited talk:* QFAS Seminar 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); 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)
- 2019 10th International Research Meeting in Business and Management (IRMBAM)
- 2018 *Invited talk:* ifo Climate Macro Workshop (presentation / discussant); *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, SAFE Poster Session at Goethe University Frankfurt
- *) presentation by co-author

Refereeing

Academic Journals	<i>Environmental and Resource Economics, European Economic Review, Financial Markets and Portfolio Management, Insurance: Mathematics and Economics, Journal of Climate Finance, Journal of Credit Risk, Journal of Econometrics, 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, Scandinavian Actuarial Journal, Social Choice and Welfare, SN Business & Economics, Technological Forecasting & Social Change</i>
Conferences	SAFE Asset Pricing Workshop (2021, 2022), SURED (2024)
Other	Cambridge University Press, ECB Working Paper Series

PhD Students

Supervision

- from 09/2024: Djep Dorelijers (co-supervised with Anne Balter and Nikolaus Schweizer), expected 2028

Committee Member

- Lieske Coumans (Tilburg University; supervised by Anne Balter and Frank de Jong), expected 2025

Teaching Experience

since 08/2022 **Tilburg School of Economics and Management (TiSEM)**, *Lectures*

- *Asset Liability Management* (2023, 2024, 2025), graduate
- *Life Insurance* (2023, 2024, 2025), undergraduate
- *Valuation and Risk Management* (2022, 2023, 2024), graduate

since 08/2022 **Tilburg School of Economics and Management (TiSEM)**, *Bachelor (EOR) and Master (EME, FIN, and QFAS) 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 (WiWi) and Master (BA, MMF, and MF) 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)

Non-academic Positions

since 08/2022 **Dr. Christoph Hambel**, kvk number: 87581183, VAT-ID: NL004440578B35

- University coaching, study advise, training and further education for private and business customers

03/2013–07/2022 **Self-employed**, German Tax ID: 022/824/63315

- University coaching, study advise, training and further education for private and business customers

Voluntary Service

- since 02/2016 **Schachbezirk 5 Frankfurt e.V.**, Registergericht: Frankfurt am Main, Reg.Nr.: 14561
- Chairman (Vorsitzender), 07/2021 – 03/2024
 - Treasurer (Schatzmeister), 02/2016 – 07/2021
 - Tournament director for team competitions (Turnierleiter für Mannschaftswettkämpfe), 08/2016 – 09/2019

Other Information

- Languages German (native), English (fluent), French (basic knowledge), Dutch (beginner)
- Software C#, \LaTeX , Mathematica, Matlab, Python, R, SQL, Stata, VBA
- Personal Status Married, one son (born 2021)