Dr. Christoph Hambel

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Curriculum Vitae

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

Asset Pricing, Climate Finance, Environmental Economics, Life Cycle Consumption-Portfolio Choice, Life Insurance, Machine Learning, Sustainable Finance

Academic Positions

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

04/2013-12/2018 Research Assistant, Goethe University Frankfurt, Faculty of Economics and Business
- 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

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*, forthcoming, 2021

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, Revise and Resubmit at *Management Science*

When Should Retirees Tap Their Home Equity? (with Holger Kraft and André Meyer-Wehmann), SAFE Working Paper 293, Revise and Resubmit at *Journal of Banking and Finance*

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)

Deep Learning in Green Finance (with Leonhardt Viebach)

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.

Presentations

2021: *Invited talk:* Finance Seminar Series at Lund University, 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

Awards

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

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: 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

Teaching Experience

since 10/2019 **Lectures** at the Goethe University Frankfurt, graduate courses: *Advanced Financial Economics I* (2019, 2020, 2021); undergraduate courses: *Financial Derivatives and Risk Management* (2021)

since 04/2013 **Teaching assistant** at the Goethe University Frankfurt and Goethe Business School, 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)

since 04/2013 **Thesis supervision** at the Goethe University Frankfurt: 21 bachelor theses; 12 master theses from various areas of financial and environmental economics

10/2010-07/2012 **Teaching assistant** at the University of Kaiserslautern, undergraduate courses, taught in German: *Preparation Class for Mathematics* (2010, 2011), *Higher Mathematics I* (2012), *Higher Mathematics II* (2011), *Higher Mathematics III* (2011), *Applied Mathematics: Stochastic Methods* (2010), *Statistics II for Economists* (2012)

Other Information

Languages: German (native), English (fluent)

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

References

Claus Munk
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Copenhagen Business School
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Eduardo S. Schwartz
Ryan Beedie Chair in Finance
Simon Fraser University
✉ eduardo_schwartz@sfu.ca

Frederick van der Ploeg
Department of Economics
University of Oxford
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