

# Andreas Brøgger

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## Academic Appointments

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Assistant Professor of Finance, Rotterdam School of Management, Erasmus University	2023 –
Research Fellow, Netspar	2024 –
Associate Research Member, ERIM, Erasmus University	2023 –
Guest Researcher, Copenhagen Business School	2023 –
Visiting Scholar, University of Luxembourg	2021 – 2022
Visiting Scholar, The Wharton School, University of Pennsylvania	2019 – 2020

## Education

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Ph.D. in Finance, Copenhagen Business School	2017 – 2023
Advanced Diploma in Economics, University of Cambridge	2013 – 2014
M.Phys. B.Sc. (1st class Honours) in Physics, University of Warwick	2009 – 2013

## Research Interests

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Sustainable Finance, Asset Pricing, Asset Management

## Research Papers

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### 6. [Skills and Sentiment in Sustainable Investing](#) (with Alexander Kronies).

*Best Paper in Finance Award, Second BFGA Conference.*

*Presented at the fourth University of Oklahoma Energy and Climate Finance Research Conference co-sponsored by the Review of Financial Studies.*

**Abstract:** We document a significant difference in the returns to sustainable investing across investor types. Investors with strict ESG mandates earn 3.1% less than flexible investors. The mechanism is that flexible investors are able to react on expected ESG improvements. Without engaging in activism, flexible investors buy stocks that subsequently experience ESG score increases. After ESG improvements have realized, demand from strict mandate investors pushes up stock prices, resulting in positive returns for flexible investors. A new climate sentiment measure shows that the performance gap is higher when accompanied by rising sentiment, as seen during the 2010s. Our channel accounts for 51% of the return difference between strict and flexible ESG investment mandates. Hence, going from backward to forward-looking ESG ratings could reduce both capital misallocation and wealth transfer from strict investors, such as pension funds, to more flexible investors, such as hedge funds.

### 5. [The Future of Emissions](#) (with Jules van Binsbergen).

**Abstract:** We argue for the introduction of firm-level emission futures contracts as a novel way of assessing the real impact of ESG initiatives. Our measure is based on the forward-looking market-based valuation of firm-level CO<sub>2</sub> emissions. We establish both theoretically and empirically that backward-looking subjective ratings are limited to the extent that they fail to capture future reductions in emissions. We show evidence that although lower emissions have predicted higher E

ratings, higher E ratings have predicted higher, not lower, emissions. As such, by following these subjective ratings, investors may have inadvertently allocated their money to firms that pollute more, not less. We discuss several applications of our new measure, including executive pay and investment management.

#### 4. **Corporate Asset Pricing** (sole author).

**Abstract:** I show the new fact that idiosyncratic volatility significantly predicts the convenience yield. This fact is hard to reconcile with current theories. I develop a new theory that reconciles this puzzle - a theory I label Corporate Asset Pricing (CAP). CAP is verified in the cross-section of firm holdings and has been an important driver at least since the 1920's. I provide causal interpretability by isolating my demand-based effect from confounders by using plausibly exogenous cross-sectional variation in corporation size and industry exposures. The results provide support for the importance of corporates as an investor class.

#### 3. **Macroprudential Buffers: Trading Systemic Risk for Risk Premia** (sole author).

**Abstract:** I document that equity prices fall as macroprudential buffers are announced. This is consistent with macroprudential buffers leading to an increase in risk premia, from a heightened price of risk. Theoretically, I develop a model that predicts that as buffers are announced 1) The price of risk increases, 2) Systemic risk falls, and 3) Intermediaries' risky asset allocation decreases, as other agents with higher risk aversion increase their portfolio weights in the risky asset. Empirically, I find evidence consistent with the first and third prediction. The second remains a testable implication of my model. In summary, this paper sheds light on the equilibrium effects of implementing new financial regulation on asset prices and systemic risk.

#### 2. **Identification and assessment of systemic risks in financial networks: Modelling fire sales from regulatory cliff effects** (with Graeme Cokayne), *Danmarks Nationalbank Working Paper*, Number 117.

**Abstract:** This paper investigates fire sales triggered by regulatory cliff effects induced by the loss of Capital Requirements Regulation (CRR) compliance on covered bonds. The loss of CRR compliant status leads to banks holding these covered bonds to lose several regulatory advantages, one consequence being a lower solvency. In our analysis, following the loss of CRR compliance, banks sell off their covered bonds in a fire sale, in an attempt to return to their initial solvency, resulting in losses of equity for the system as a whole. Further, we find that, for price impacts larger than a critical threshold, even small shocks lead to explosive fire sales and large losses of equity. While these losses can be averted if the banks allow their solvency levels to fall temporarily, other regulations, such as those relating to large exposures to other banks, could still trigger similar fire sales.

## Research in Progress

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#### 1. **The Market for Green Funds** (with François Koulischer and Michael Halling).

**Abstract:** We derive a model that predicts the rise of green investment funds. The model further explains how green funds have higher value-added, even though their alphas are lower than brown funds after controlling for rising sentiment. We go on to document the growth of green funds from 12% of managed equities in 2013 to 56% by 2021, where we circumvent issues of greenwashing by using the actual emissions of underlying holdings. Dissecting this growth, we find stark differences between North America and Europe, both in terms of magnitude and source of growth. The results

provide support for a lower expected return for green funds going forward, and raises concerns regarding the investor share of value-added in green funds.

## Co-Founder

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<a href="#">Dutch Sustainable Finance Network</a>	2023
<a href="#">Dutch Financial Economics of Climate and Sustainability (FECS) Workshop</a>	2024

## Media Attention

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<a href="#">Blog Post on Future of Emissions</a> , Wharton Climate Center	2024
<a href="#">News Article on Future of Emissions</a> , Jyllandsposten and Finans (In Danish)	2023
<a href="#">Podcast on Future of Emissions</a> , Rig på Viden, Episode 79	2022
<a href="#">Podcast on Skills and Sentiment in Sustainable Finance</a> , Rig på Viden, Episode 13	2020
<a href="#">Blog Post on Skills and Sentiment in Sustainable Finance</a> , CAIA Association	2020
<a href="#">Central Bank Publication on Cliff Effects</a> , Danmarks Nationalbank	2016
<a href="#">News Article on Cliff Effects</a> , Danmarks Radio	2016
<a href="#">News Article on Cliff Effects</a> , FinansWatch	2016
<a href="#">News Article on Cliff Effects</a> , Finans	2016

## Honours of Grants, Fellowships, and Awards

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€ 25 000 Netspar Topicality Grant	2024
Research Fellow, Netspar	2024
Associate Research Fellow, ERIM	2023
Guest Researcher, Copenhagen Business School	2023
Prize Finalist, Brandes Center	2023
Best Paper Award, Behavioral Research in Finance, Governance, and Accounting Conference	2020
Travel Grant, Princeton Initiative: Macro, Money and Finance	2019
Research Fellow, Center of Financial Frictions (FRIC)	2017
PhD Scholarship Grant, grant no. DNRF102	2017
Warwick Renmin University Scholarship	2011
CEDIES Scholarship	2009

## Invited Seminars and Conferences

\* indicates presentations by co-author. (s) indicates scheduled.

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**2024:** American Finance Association Annual Meeting (AFA), Utrecht University, Dutch Sustainable Finance Workshop, International Centre for Pension Management (ICPM) Discussion Forum (s), European Finance Association Annual Meeting (EFA) (s), Vrije Universiteit Amsterdam (s), Cambridge University Judge Business School (s)

**2023:** BlackRock\*, Rotterdam School of Management at Erasmus University, ESCP, IESE, Tilburg University, Stockholm School of Economics, Stockholm Business School (s), HEC Paris (s), FED Board (s)

**2022:** American Finance Association Annual Meeting (AFA) PhD Poster Session, American Economic Association Annual Meeting (AEA) PhD Poster Session, Review of Financial Studies (RFS) and University of Oklahoma Energy and Climate Finance Research Conference\*, Chartered Financial Analyst Society Denmark (CFA), Copenhagen Business School FRIC Final Event, HEC Paris

6th Finance PhD Workshop, BI Norwegian Business School and Nordic Finance Network (NFN) Young Scholars Workshop, Università di Bologna 1st YSBC Sustainable Finance Conference,

**2021:** University of Luxembourg, EEA-ESEM 36th Congress of the European Economic Association, Econometric Society Asian Meeting, Aarhus University Nordic Finance Network (NFN) PhD Workshop, Copenhagen Business School

**2020:** Wharton School at University of Pennsylvania, Chicago Becker Friedman Institute Macro-Finance Research Program, 19th Conference on Credit Risk Evaluation (CREDIT), Northern Finance Association Meetings (NFA) PhD Symposium\*, Behavioral Research in Finance, Governance and Accounting Conference\*, T. Rowe Price Investment Management

**2019:** American Finance Association Annual Meeting (AFA) PhD Poster Session, Aalto University and Nordic Finance Network (NFN) PhD Nordic Finance Workshop, Wharton School at University of Pennsylvania

**2018:** Danmarks Nationalbank, Nykredit Realkredit A/S, Lund University\*, Copenhagen Business School PhD Day, Bank of England Fire Sale Workshop\*, Bank of Finland RiskLab\*, Financial Management Association (FMA) Europe

## Invited Discussions and Session Chair

**2022:** Bonelli, Briere, and Derrien: Altruism or self-interest? ESG and participation in Employee Share Plans. 1st YSBC Sustainable Finance Conference ([Discussion](#))

**2021:** Econometric Society, Asian Meeting (Session Chair)

**2018:** FMA Europe. Vodenska, Aoyama, Becker, et al. Systemic Risk and Vulnerabilities of Bank Networks (Discussion)

## Teaching

**Financial Modelling, Rotterdam School of Management** 2023-2024

Lecturer and course coordinator, Master level core course (500+ students)

Textbook: Investments by Bodie, Kane, and Marcus

Evaluation (Average 4/5, Median 4/5, Mode 5/5)

**Sustainable Finance, Rotterdam School of Management** 2023-2024

Lecturer and course coordinator, Master level (100+ students)

Independently developed course. Email me for course outline.

Evaluation (Average 4/5, Median 4/5, Mode 4/5)

**Course in Financial Economics of Climate and Sustainability, Global** 2023-2024

Local course coordinator at Rotterdam School of Management, PhD Level

**Financial Intermediation, Copenhagen Business School** 2018-2021

Lectured tutorials and assisted David Lando, Master Level

**Financial Derivatives and their Applications, Copenhagen Business School** 2017-2019

Teaching assistant to Rasmus Tangsgaard Varneskov, Bachelor Level

**Corporate Finance, Copenhagen Business School** 2018-2019

Teaching assistant to Thomas Geelen, Masters Level

## Referee and Reviewer

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*Journal of Banking and Finance; 6th Annual GRASFI Conference at Yale University; 2nd Conference on Sustainable Finance at University of Luxembourg; Journal of Environment, Development and Sustainability; Journal of Commodity Markets*

## Service

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<i>Organizer</i> Dutch Sustainable Finance Workshop	2024
<i>Examiner</i> Sustainable Finance, Copenhagen Business School	2023
<i>PhD Reading Group</i> Sustainable Finance, RSM	2024
<i>PhD Brown Bag Coordinator</i>	2017-2019
<i>Supervisor</i> Masters' Theses	2019-2023
<i>Supervisor</i> Bachelors' Theses	2018-2023
<i>Supervisor</i> Business Projects	2021

## Industry Experience

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### National Bank of Denmark

Systemic Risk and Financial Stability, Head of Section	2015 – 2017
Banking and Markets, Trainee	2014 – 2015

### Sparinvest, Denmark

Investment Fund, Risk and Compliance, Intern	2014
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### Eden McCallum, London, United Kingdom

Strategy Consulting, Intern	2014
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## Other Education

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### Stanford Graduate School of Business

Stanford Big Data Initiative in International Macro-Finance	2020
Selected by Matteo Maggiori, Brent Neiman, and Jesse Schreger	

### University of Oxford

Tools for Macroeconomists: Essentials and Advanced, Department of Economics	2020
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### University of Chicago

Macro Finance Research Program Summer Session for Young Scholars (MFR), Becker Friedman Institute	2020
Organised by Lars Peter Hansen, Fernando Alvarez, John H. Cochrane, Douglas Diamond, Wenxin Du, Zhiguo He, John C. Heaton, Anil Kashyap, Ralph S.J. Koijen, Yueran Ma, Thomas Sargent, Amir Sufi, and Harald Uhlig	

### Princeton University

ECO529: Macro, Money and International Finance, Bendheim Center for Finance	2019
Taught online by Markus Brunnermeier	

### Princeton University

Princeton Initiative: Macro, Money, and Finance, Bendheim Center for Finance	2019
Selected by Markus Brunnermeier and Yuliy Sannikov	

Nominated by Lasse Heje Pedersen

**Wharton School of Business**

Topics in Asset Pricing, Jules van Binsbergen; 2019 – 2020  
Corporate Finance and Financial Institutions, Itay Goldstein;  
Empirical Corporate Finance, Michael Roberts

**London School of Economics**

Advanced Microeconomics, Advanced Macroeconomics 2012

**Renmin University**, Beijing, China

Chinese Political Strategy, Chinese Language (Oral, Written) 2011

**Other**

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*Citizenship*: Danish, Luxembourgish

*Miscellaneous*: Runner up in Copenhagen Business School Department of Finance Fantasy Football League (2021)