

## LUKAS BOER

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<b>RESEARCH INTERESTS</b>	Time Series Econometrics, International Macro, Trade Policy, Energy Transition	
<b>EMPLOYMENT</b>	<b>Research Associate</b> <b>German Institute for Economic Research (DIW Berlin)</b> Department: International Economics	<i>10/2019 - Present</i>
<b>AFFILIATION</b>	<b>Berlin School of Economics, DIW Graduate Center</b>	
<b>EDUCATION</b>	<b>Ph.D. Candidate, Economics</b> Humboldt-Universität zu Berlin Advisors: Prof. Dr. Lukas Menkhoff, Prof. Michael C. Burda, Ph.D.	<i>10/2018 - Present</i>
	<b>Ph.D. Coursework in Economics</b> DIW Berlin Graduate Center	<i>10/2018 - 08/2019</i>
	<b>Master of Science, Economics and Management Science</b> Humboldt-Universität zu Berlin Thesis: "Fiscal Transfers in a Currency Union", Supervisor: Prof. Michael C. Burda, Ph.D. Erasmus semester at Stockholm University	<i>10/2015 - 08/2018</i>
	<b>Bachelor of Science, Economics</b> Universität Mannheim Thesis: "The Effect of Trade on Unemployment with Focus on the Role of Labor Market Institutions", Supervisor: Prof. Harald Fadinger, Ph.D. Erasmus semester at Toulouse School of Economics	<i>09/2012 - 06/2015</i>
<b>PROFESSIONAL EXPERIENCE</b>	<b>Fund Internship Program</b> International Monetary Fund - Research Department, Commodities Unit, Washington D.C.	<i>06/2021 - 09/2021</i>
	<b>Student Research Assistant</b> DIW Berlin, International Economics Department	<i>10/2017 - 08/2018</i> <i>10/2015 - 10/2016</i>
	<b>Intern Private Equity</b> Odewald KMU Gesellschaft für Beteiligungen mbH, Berlin	<i>05/2017 - 07/2017</i>
	<b>Intern Consulting</b> PricewaterhouseCoopers GmbH, Düsseldorf	<i>01/2017 - 04/2017</i>

## TEACHING

### Teaching Assistant, Humboldt-Universität zu Berlin

“European Integration”, bachelor level (Prof. M. Burda) *Spring 2019, '20, '21*

Supervision of bachelor and master theses *Spring 2020, '21*

“Topics in Emerging Markets”, master seminar (Prof. L. Menkhoff) *Fall 2019*

## PUBLICATIONS

### Qualitative versus Quantitative External Information for Proxy Vector Autoregressive Analysis

(with Helmut Lütkepohl), [Journal of Economic Dynamics and Control](#) 127, 2021.

[[link to WP version](#)]

*Summary:* We investigate the possible loss in estimation efficiency for structural parameters in vector autoregressive analysis when having only qualitative rather than quantitative external information. In Monte Carlo simulations and an application to the effects of monetary policy we show that qualitative sparse instruments often yield as efficient or even more efficient estimates than quantitative instruments.

## WORKING PAPERS

### Energy Transition Metals

(with Andrea Pescatori and Martin Stuermer), [IMF Working Paper 21/243](#), 2021.

*Summary:* Are metals such as copper, nickel, cobalt, and lithium a key bottleneck for the energy transition? We identify metal-specific demand shocks, estimate supply elasticities and pin down the price impact of the energy transition in a structural scenario analysis. We find that metal prices would reach historical peaks for an unprecedented, sustained period in a net-zero emissions scenario.

### The Multifaceted Impact of US Trade Policy on Financial Markets

(with Lukas Menkhoff and Malte Rieth), [DIW Discussion Papers 1956](#), 2021.

*Summary:* We study the effects of trade policy shocks on financial markets in a structural vector autoregression model identified via event day heteroskedasticity. We find that restrictive US trade policy shocks affect US and international stock prices heterogeneously, but generally negatively overall, increasing market uncertainty, lowering interest rates, and leading to an appreciation of the US-Dollar.

## WORK IN PROGRESS

### Motives of Foreign Exchange Interventions - A Textual Approach

(with Tobias Heidland and Lukas Menkhoff)

### The Real Consequences of US Tariff Policy Shocks

## POLICY PUBLICATIONS

IMF (2021), “Special Feature: Commodity Market Developments and Forecasts”, [World Economic Outlook](#), October 2021 (‘other contributor’ to the chapter).

Boer, L., L. Menkhoff and M. Rieth (2021), “*Restriktive US-Handelspolitik wirkt signifikant negativ auf Finanzmärkte*”, [DIW Wochenbericht](#) 31, August 2021.

Boer, L. and L. Menkhoff (2021), “*Die globalisierte deutsche Wirtschaft: Im Wahlkampf*

vernachlässigt”, *DIW Aktuell* 68: Sonderausgaben zur Bundestagswahl, July 2021.

Boer, L. and L. Menkhoff (2020), “Wechselkurse als Corona-Barometer: wie Währungsschwankungen die Krise spiegeln”, *DIW Aktuell* 40, May 2020.

Boer, L. (2019), “Measuring the Effect of Foreign Exchange Intervention Policies on Exchange Rates”, *DIW Roundup* 128, April 2019.

## Presentations

**2021:** Econometric Society European Summer Meeting; IMF Research Department Internal Seminar; International Association of Applied Econometrics Annual Conference; Royal Economic Society Annual Conference; Humboldt-Universität Berlin, Brown Bag Seminar; Freie Universität Berlin, Empirical Macroeconomics Seminar

**2020:** Econometric Society European Winter Meeting; German Economic Association Annual Conference; Humboldt-Universität zu Berlin, Brown Bag Seminar

**2019:** Freie Universität Berlin, Empirical Macroeconomics Seminar; DIW Berlin, Internal Macro Seminar

## GRANTS

*Doctoral Grant*

*10/2018 - 09/2019*

DIW Graduate Center

## SKILLS

### Software

MATLAB, R, Stata  $\LaTeX$ , Office

### Languages

German (native), English (proficient), French (Delf B2), Spanish (Basic), Portuguese (Basic), qualification in Latin.

### Further Training

”Text Analysis: Methods and Applications for Economics and Finance”, by Ruben Durante, October 2020, DIW Berlin.

”Computational Macroeconomics Summer Course”, by Wouter den Haan and Petr Sedláček, August 2020, University of Oxford.

3rd Lancaster PhD Summer School on “Bayesian Methods for Empirical Macroeconomics”, by Gary Koop, July 2020, Lancaster University.

Shortcourse ”Machine Learning: An applied econometric approach”, by Jann Spiess, September 2019, DIW Berlin.

## PERSONAL

*Date and Place of Birth:* December 24, 1992, Gelsenkirchen, Germany

*Citizenship:* German