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## RESEARCH INTERESTS

AUTOMATION AND NEW TECHNOLOGIES, REGIONAL ECONOMICS,  
INTERNATIONAL ECONOMICS, LABOR ECONOMICS, ECONOMIC  
DEVELOPMENT, BIG DATA AND MACHINE LEARNING

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## ACADEMIC POSITIONS

- 05/2020 - **Research Fellow (Postdoctoral Researcher)**, University of Sussex (United Kingdom), Research Center „Digital Futures at Work“ / Digit
- 10/2020 – 03/2021 **Alfried-Krupp Junior Research Fellow**, University of Greifswald
- 04/2020 - **Postdoctoral Researcher**, University of Göttingen, Chair of Empirical Economics
- 04/2012 – 03/2020 **Akademische Rätin (Postdoctoral Researcher)**, University of Göttingen, Chair of International and Monetary Economics (on sabbatical leave 10/2017-09/2019)
- 10/2017-09/2019 **Marie Curie Junior Research Fellow**, Durham University (United Kingdom)
- 09/2014-12/2014 **Visiting Researcher**, Monash University (Australia), invited by Laura Puzzello
- 10/2013-11/2013 **Visiting Researcher**, Université de Fribourg (Switzerland), invited by Volker Grossmann
- 03/2013-04/2013 **Visiting Researcher**, College of William and Mary (USA), invited by Admasu Shiferaw
- 12/2007-03/2012 **Research Associate**, University of Göttingen, Chair of International and Monetary Economics

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## EDUCATION

- 2012 **PhD in Economics** (*summa cum laude*), University of Göttingen, Thesis Title: Industrial and Services Sectors' Agglomeration in the European Union
- 2007 **Diplom in Economics** (*with distinction, grade 1.2*), University of Bielefeld, Thesis Title: Econometric Analyses on the returns to education in the German economy
- 08/2005-05/2006 **Study abroad program** at Purdue University (USA), funded by the German Academic Exchange Service (DAAD), participation in Ph.D. courses in Economics and Statistics
- 10/2004-07/2005 **Interdisciplinary study program** „Europa Intensiv“ at University of Bielefeld, participation in courses of Linguistics (grade 1.0), Sociology (grade 1.0), Political Science (grade 1.3), Law (grade 1.3)
- 2001 **Abitur** (*A-levels certificate, grade 1.5*)

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## RESEARCH GRANTS AND SCHOLARSHIPS

2017-2019	Project title: <b>Firm-level analyses of Agglomeration Externalities, Knowledge Spillovers, and Productivity Growth</b> , Principal Investigator, ~100K, Durham International Junior Research Fellowship, Marie Curie Cofund
2014-2017	Project title: <b>European market integration and determinants of German firm localization</b> , Principal Investigator, 3K, Lindemann Foundation
2019	Conference grant, „Nachwuchsprämie, Verein für Socialpolitik“
2017	Participation in the 5th Master Class on EU Cohesion Policy, European Week of Regions and Cities, Brussels
2015	Research travel grant, Unibund University of Göttingen
2014	Faculty travel grant, University of Göttingen; Research travel grant, Unibund University of Göttingen
2013-2014	Participation in the Dorothea-Schlözer programme for young female scientists, University of Göttingen
2009	Conference travel grant, Econometric Society
2009	Travel grant, Excellence Initiative University of Göttingen
2007	Slesinger Fellowship, University of Pittsburgh (declined the offer)
2007	PhD position at Pennsylvania State University (declined the offer)
2007	Best Diploma of the Department of Economics, University of Bielefeld
2005-2006	DAAD Scholarship (German Academic Exchange Service), University of Bielefeld
2004-2005	Participation in the qualification programme „Europa Intensiv“, University of Bielefeld

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## RESEARCH

### Forthcoming publications

**The Benefits of Remoteness - Digital Mobility Data, Regional Road Infrastructure, and COVID-19 Infections**, with H. Strulik, *German Economic Review*.

**One-Class Support Vector Machine and LDA Topic Model Integration**, with A. Thielmann and C.J. Weisser, *Computational Intelligence*.

**The Effects of Absorptive Capacity on Innovation Performance - A Cross-Country Perspective**, with R. Harris and J. Moffat, *Journal of Common Market Studies*.

### Revise and Resubmit

**Unsupervised Document Classification integrating Web Scraping, One-Class SVM and LDA Topic Modelling**, with B. Saefken, A. Thielmann, C.J. Weisser, 2020.

**Robots, Reshoring, and the Lot of Low-Skilled Workers**, with K. Prettnner and H. Strulik, 2020.

**Quantifying Reshoring at the Macroeconomic Level –Measurement and Applications**, with H. Strulik, 2019.

**The Gender Gap in International Trade - Female-run firms and the Exporter Productivity Premium**, 2019.

**Menstruation Hygiene Management and Work Attendance in a Developing Country**, with H. Strulik, 2018.

**New research working papers**

2020 **Unsupervised Document Classification integrating Web Scraping, One-Class SVM and LDA Topic Modelling**, with B. Saefken, A. Thielmann, C.J. Weisser.

**One-Class Support Vector Machine and LDA Topic Model Integration – Evidence for AI Patents**, with A. Thielmann and C.J. Weisser.

**Robots, Reshoring, and the Lot of Low-Skilled Workers**, with K. Prettnner and H. Strulik, GLO paper.

**The Benefits of Remoteness - Digital Mobility Data, Regional Road Infrastructure, and COVID-19 Infections**, with H Strulik, 2020.

2019 **Stay or Go? Relocation decisions of German Manufacturing Plants**

**What drives the location choice of manufacturing firms between East and West Germany?**

**Firm heterogeneity, productivity, and the extensive margins of trade - Differences between manufacturing firms in East and West Germany**

2018 **A Macroeconomic Measure for Reshoring and a Note on the Offshoring-Reshoring Nexus**

**A Stata Code for computing a distance-based Firm-Level Cluster Index**

**Work in progress**

**The Dynamics of German Industry Clustering**, with R. Harris and J. Moffat.

**Regional Drivers of Firm-Level Productivity for German Upper Mittelstand Firms**, with R. Harris and J. Moffat.

**The Impact of Regional Infrastructure for Firm-Level Trade and Productivity in a Regression Discontinuity Framework**

**AI innovation and regional economic development**, with C.J. Weisser.

**Published**

2015 **Knowledge and Earnings –A Regional Economic Analysis for the German Economy**, *Conference Proceedings of the Regional Science Association*, 106-108.

**European market integration, R&D agglomeration economies, and the location choice of firms in Poland**, Krenz, A.; Gehring, A., *Eastern European Economics*, 53, 491-513.

2014 **Adjustment Dynamics of Countries' Specialization Patterns in the European Union**, *Applied Economics Letters*, 21, 671-674.

**Services sectors' concentration and countries' specialization patterns in services in the European Union: A comparative analysis with a special**

**focus on France, Germany, Greece, and the UK**, *Regional and Sectoral Economic Studies*, 14, 23-32.

2013 **Services Sectors' Concentration: the European Union and the New Economic Geography**, *Applied Econometrics and International Development*, 13, 29-44.

#### Other

2017 **Democracy and International Trade**, with A. Abeliansky, working paper.

2016 **Knowledge, Earnings, and Agglomeration Economies in the German Regional Economy**, working paper.

**Agglomeration of Knowledge: A Regional Analysis for the German Economy**, working paper.

**Industrial and Services Sectors' Agglomeration in the European Union**, 2012, Göttingen, e-dissertation.

**Econometric Analyses on the returns to education in the German economy** (in German), 2008, Saarbruecken/Bielefeld, diploma thesis.

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#### IN THE MEDIA

2019 'The Daily Telegraph': **Women fare better than men when it comes to beating the rise of the robots**

'LSE Business Review': **Industrial robots are bringing jobs back home, but not for low-skilled workers**

World Economic Forum: **Industrial robots are bringing jobs back home, but not for low-skilled workers**

Royal Economic Society Blog: **Industrial robots are bringing jobs back home, but not for low-skilled workers**

'Harvard Business Manager': **Reshoring: Von Fachkraeften und Robotern**

'Business Day': **Trump's job plan would benefit robots**

'Global Economic Dynamics Blog, Bertelsmann Stiftung': **What is the Impact of Reshoring? Will Digitalization bring jobs back to developed countries?**

2018 'Der Spiegel': **Einmal China und zurueck**

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#### TEACHING AND MENTORING

##### Teaching

04/2012-present As Lecturer/Instructor at University of Göttingen:

- Lecture in **Regional and Urban Economics** (BA level), summer semester (SS) 13, winter semester (WS) 14/15
- Lecture in **Geographical Economics** (MSc level), WS 12/13, WS 13/14
- Lecture in the **Economics of the European Union** (MSc level), SS 17
- Several reading courses (in German Seminar) like **Regional and Urban Economics, Economic Geography, Migration and Economic Development, Economics of the European Union**, WS 2016/17, SS16, WS 14/15, SS 2016, WS 16/17, WS19/20

12/2007-03/2012

As Teaching Assistant at University of Göttingen:

- Exercise Lecture in **International Trade** (MSc level), WS 08/09
- Exercise Lecture in **Monetary Theory and European Monetary Policy** (MSc level), SS 08 and 09
- Exercise Lecture in **Monetary Theory and Monetary Policy** (BA level), SS 10, 11 and 12
- Exercise Lecture in **Foundations of International Economic Relations** (BA level), WS 09/10, 10/11 and 11/12
- **Firms and Markets** (BA level), WS 07/08
- Several reading courses like **Monetary Theory and Monetary Policy, Monetary Theory and European Monetary Policy, Advances in International Trade**, SS 10, 12 and WS 10/11, 11/12, WS 08/09 and 09/10, WS 07/08, 08/09 and 09/10, SS 08, 09, 11 and 13, WS 12/13, SS13

10/2004-03/2005

As Teaching Assistant at University of Bielefeld:

- **Introduction to Economics** (BA level)

12/2007-present

#### Supervision Bachelor theses

- Liliya Sharafetdinova, "Growth of Cities: Theoretical Aspects and Empirical Analyses"
- Christoph Johannes Weisser, „Hedonic Founded Cleaning of the estimated Property Value in the Micro Survey Panel on Household Finances by Linear Stochastic Imputation“
- several more as second supervisor

12/2007-present

#### Supervision Master theses

- Kristin Lorenz, "A theory-based Analysis of the Effects of Regional and Structural Policy in the EU"
- Liliya Sharafetdinova, "Agglomeration and Growth –A Comparative Analysis for the European Union"
- Oleg Schaefer, „The Sovereign Debt Crisis in the EU -a theory-based Analysis of the Causes and Institutional Actions“
- Monika Wier, „The impact of the NAFTA on regional wage differentials in Mexico“
- Robin Brakhage, "A theory-based Analysis of Macroeconomic Imbalances during the euro crisis -Institutional Actions in regard to Monetary and Fiscal Policy"
- Linh Vuong, "Internal Migration and Regional Inequality in China"

- several more as second supervisor and as first supervisor

### INVITED SEMINARS AND TALKS

2020	University of Manchester, ETUI Brussels, University of Bath
2019	EU Social Situation Monitor Seminar Brussels
2018	Universitat Rovira i Virgili (Reus)
2017	Statistical Office IT.NRW (Duesseldorf); University of Augsburg
2015	University College Dublin; Technical University Chemnitz
2014	Economics Seminar (Monash); Econometrics Seminar (Monash)
2013	College of William and Mary (Williamsburg); Trade Group Seminar (Göttingen); Université de Fribourg
2012	University of Kiel
2011	Université de Genève

### TALKS AT CONFERENCES (PEER-REVIEWED)

Econometric Society: 2009 (Canberra), 2009 (Tokyo), 2014 (Taipeh), 2019 (Manchester)  
 EEA: 2019 (Manchester)  
 Royal Economic Society: 2018 (Brighton), 2019 (Warwick University), 2020 (Belfast)  
 EARIE: 2017 (Maastricht)  
 EALE: 2019 (Uppsala)  
 PhD Meeting Royal Economic Society: 2011 (London)  
 Verein für Socialpolitik: 2012(Göttingen), 2016(Augsburg), 2019 (Leipzig), 2020 (Köln)  
 ETSG: 2009, 2010, 2011, 2014, 2015, 2019  
 Regional Studies Association: 2013, 2015, 2016, 2017, 2018, 2019  
 ENEF: 2018 (Brighton)  
 World Congress on Comparative Economics: 2015 (Rome)  
 Regional Economics Workshop in Vienna: 2014, 2016, 2019

### NON-ACADEMIC WORK EXPERIENCE

06/2006-07/2006	Internship at the German Permanent Mission to the Office of the United Nations and the Other International Organisations, WTO department, Geneva
01/2000	Internship Deutsche Bank AG

### PROFESSIONAL SERVICE

#### Refereeing for Journals

Cambridge Journal of Regions, Economy, and Society; Regional Studies; LABOUR, Review of Labour Economics and Industrial Relations; International Review of Applied Economics; American Journal of Agricultural Economics; International Economics and Economic Policy; Services Industries Journal; Social Indicators Research; Metroeconomica, Telecommunications Policy

#### Organisation of Workshops

Main local organizer of an annual conference in International Economics ("Göttinger Workshop Internationale Wirtschaftsbeziehungen") University of Göttingen, 2012, 2013, 2014, 2015, 2016, 2017

## Committees

- Member of the Managing Committee (Vorstand) of the Department of Economics, University of Göttingen
- Member of the Research Committee of the Department of Economics, University of Göttingen
- Member of the search committees for a professorship in: International Economic Policy, Econometrics I, International Economics, Econometrics II, University of Göttingen
- Member of the search committees for students applying for the: “Niedersachsen-Scholarship” and for the “Germany-Scholarship”, University of Göttingen
- Main local organizer of the regional group of the German Academic Exchange Service (DAAD Freundeskreis) in Göttingen, 2012-2017

## Affiliations and Memberships

American Economic Association, European Economic Association, Econometric Society, Regional Studies Association, Verein für Socialpolitik (German Economic Association), Gesellschaft für Regionalforschung, Deutscher Hochschulverband, Financial Geography Network

## Software and Language Skills

Software and programming knowledge: STATA, R, SAS, OxMetrics, E-Views, Latex, html, Python  
Languages: German (native), English (proficient), Spanish (intermediate), French (intermediate), Latin