

Lara Vomfell

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Education

- 10/2017 - 09/2021 **Applied Statistics, PhD** **University of Warwick**
Coventry, UK
- Bridges Leverhulme programme
 - Thesis: “Spatial and behavioral patterns in police officer decisions”
 - Supervisors: Neil Stewart, Nattavudh Powdthavee and Julia Brettschneider
- 10/2015 - 09/2017 **Economics, MSc** **Humboldt University of Berlin**
Berlin, DE
- GPA of 1.7 (top 5%); 120 + 32 ECTS
 - Thesis: “Improving Crime Forecasts with Taxi and Twitter Data”; grade: 1.0
 - Semester abroad at Nova University of Lisbon, PT
- 10/2011 - 02/2015 **Politics and Economics, BA** **University of Münster**
Münster, DE
- GPA of 1.7 (top 5%); 180 + 26 ECTS
 - Thesis: “Surveying Data Marketplaces: Trends and Developments”; grade: 1.0
 - Semester abroad at Federal University of Santa Catarina, BR

Experience

- 07 - 10/2015 **Internship** **OECD**
Berlin, DE
- Designed the OECD Statistic of the Day, leading to record engagement on Facebook
 - Innovated OECD science communication by directly involving OECD statisticians
- 01/2013 - 08/2015 **Research Assistant** **University of Münster**
Münster, DE
- Published research on data marketplaces (Chair of Computer Science)
 - Built database on electric mobility (ERCIS)
 - Analyzed income inequality data (Chair of Political Economy)
- 02 - 04/2014 **Internship** **Commerzbank AG**
Frankfurt, DE
- Analyzed data on customer account portfolios at Germany’s second largest bank
- 06/2011 - 05/2012 **Project Manager** **Model UN Schleswig-Holstein**
Kiel, DE
- 5-day conference with 550 participants in Schleswig-Holstein’s state parliament
 - Managed 70 staff, oversaw €120,000 budget, acquired and maintained sponsors

Publications

Improving crime count forecasts using Twitter and taxi data. **Vomfell, L.**, W. K. Härdle, and S. Lessmann (2018). *Decision Support Systems*. 113, 73–85

A classification framework for data marketplaces. Stahl, F., F. Schomm, G. Vossen, and **Vomfell, L.** (2016). *Vietnam Journal of Computer Science*. 3. 3, 137–143

Marketplaces for digital data: Quo vadis? Stahl, F., F. Schomm, **Vomfell, L.**, and G. Vossen (2015). ERCIS–European Research Center for Information Systems. Working Paper 24

Work in progress

- Officer bias in stop and search is exacerbated by deployment decisions (with Neil Stewart)
Revise & resubmit at Nature Human Behaviour
- The spatio-temporal nature of domestic abuse reporting (with Jan Povala)
- Robust inference for discrete data (with Jeremias Knoblauch)

Selected presentations and seminars

07/2020	Stop & Search Commission, West Midlands PCC	Birmingham, UK
11/2019	SJDM Oral presentation	Montréal, CA
09/2019	IAREP/SABE Oral presentation	Dublin, IE
08/2019	SPUDM Oral presentation	Amsterdam, NL
05/2019	Chicago Booth Invited Seminar	Chicago, US
08/2018	Privatissimum Statistik Invited Seminar	Berlin, DE

Fellowships and awards

2017 - 2021	Bridges Leverhulme Doctoral Scholarship
08/2018	Visiting Researcher High Dimensional Nonstationary Time Series group in Berlin
2018, 2019	Bank of England Teaching award for ‘Big Data Analytics’
2015	Thesis Award Best bachelor’s thesis in computer science awarded by zeb
2013	PROMOS Scholarship International mobility scholarship

Skills

Statistical modeling	Linear, logistic and count data models; spatio-temporal point processes; supervised machine learning techniques; Bayesian inference
Coding	R, Python, SQL
Languages	German (native), English (fluent), Portuguese (fluent), French (basic)

Extracurricular Activities

Initiated events	Bridges/CAGE Summer School in Behavioural Economics (2019); Early Career Research in Behavioral Science in Warwick; Women in Behavioural Science (2017)
Hobbies	Thai Boxing, hiking, sewing, knitting and pattern drafting