Lara Vomfell

✉ L.Vomfell@warwick.ac.uk | ⌂ laravomfell.github.io | ⬡ laravomfell

Education

10/2017 - 04/2021	**Behavioural Science, 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

- Improved customer portfolio segmentation 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) Conditionally accepted 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	**Meeting of the Society for Judgement and Decision Making**	Montréal, CA
09/2019	**IAREP/SABE Conference**	Dublin, IE
08/2019	**Subjective Probability, Utility, and Decision Making**	Amsterdam, NL
05/2019	**Chicago Booth** Invited seminar	Chicago, US
08/2018	**High Dimensional Nonstationary Time Series** 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

Initiatives	Bridges/CAGE Summer School in Behavioural Economics (2019); ECR in Behavioural Science in Warwick (ongoing); Women in Behavioural Science (2017)
Hobbies	Thai Boxing, hiking, sewing, knitting and pattern drafting