# Lara Vomfell

77 Newcombe Road, Coventry CV5 6NH, United Kingdom

+44 7445 949407 | ✉ L.Vomfell@warwick.ac.uk | ⌂ laravomfell.github.io | ⊙ laravomfell

## Education

### Behavioural Science, PhD
Warwick, UK

UNIVERSITY OF WARWICK
10/2017 - 09/2021

- Crime displacement and deterrent effects of stop and search
- Evidence of ethnic bias in stop and search events and outcomes

### Economics, MSc
Berlin, Germany

HUMBOLDT UNIVERSITY OF BERLIN
10/2015 - 09/2017

- 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 (09 - 12/2016)

### Politics and Economics, BA
Münster, Germany

UNIVERSITY OF MÜNSTER
10/2011 - 02/2015

- 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, Brazil (07/2013 - 02/2014)

### Allgemeine Hochschulreife / A-levels
Frankfurt, Germany

MUSTERSCHULE
06/2011

- GPA of 1.2 (top 3%), graduation with distinction
- Year abroad at Uttaradit Daruni, Thailand (07/2007–02/2008)

## Experience

### IRTG: High Dimensional Nonstationary Time Series
Berlin, Germany

VISITING RESEARCHER
08/2018

- Continued collaboration with Wolfgang Karl Härdle and Stefan Lessmann

### OECD
Berlin, Germany

INTERNSHIP
07/2015 - 10/2015

- Independent research and editing of the OECD Statistic of the Day
- Daily exchange with OECD statisticians and communication to journalists

### European Research Center for Information Systems
Münster, Germany

RESEARCH ASSISTANT
05/2014 - 10/2015

- Crawled websites to build SQL database on the sharing economy
- Research and data analysis on the acceptance of electric mobility

### Chair of Computer Science
Münster, Germany

RESEARCH ASSISTANT
05/2015 - 08/2015

- Independent research on data marketplaces
- Results were published as working papers

### Chair of Political Economy
Münster, Germany

RESEARCH ASSISTANT
01 - 08/2013

- Data analysis on income inequality data
- Developed material for macroeconomics lecture

# Awards and Scholarships

| | | |
|---|---|---|
| 2017 - 2021 | **Bridges Leverhulme**, Doctoral Scholarship | |
| 2018 | **Teaching Award**, Outstanding contribution to module 'Big Data Analytics' (Bank of England) | |
| 2016 | **Data Mining Cup**, 10th to 49th place | |
| 2015 | **zeb Award**, best bachelor's thesis in computer science | |
| 2013 | **PROMOS Scholarship**, international mobility scholarship | |

# Presentations and Workshops

**Stop & Search Commission, West Midlands Police and Crime Commissioner** — Birmingham, UK
INVITED TALK — 01/2019

**PhD Conference in Behavioural Science** — Dublin, Ireland
PRESENTATION — 11/2018

**Privatissimum Statistik** — Berlin, Germany
INVITED TALK — 08/2018

**Stop & Search Commission, West Midlands Police and Crime Commissioner** — Birmingham, UK
INVITED TALK — 07/2018

**CRiSM Summer School on Computational Statistics** — Warwick, UK
SUMMER SCHOOL — 07/2018

**Young Behavioural Science** — Warwick, UK
PRESENTATION — 05/2018

**Bridges Away Day** — Warwick, UK
PRESENTATION — 05/2018

# Publications

**Improving Crime Count Forecasts with Twitter and Taxi Data** — Decision Support Systems, 113, 73–85
VOMFELL/HÄRDLE/LESSMANN — 2018

- Using spatial and machine learning models, predictions for New York City crime over 26 weeks are enhanced
- Property crime depends on local opportunities as captured by new data sources
- Violent crime does not emerge from short-run human dynamics

**A Classification Framework for Data Marketplaces** — Vietnam Journal of Computer Science 3.3, 137–143
STAHL/SCHOMM/VOSSEN/VOMFELL — 2016

- Understanding pricing mechanisms of data
- Development of a scheme to group emerging data marketplaces

**Marketplaces for Digital Data: Quo Vadis?** — ERCIS Working Papers, Vol. 24
VOMFELL/STAHL/SCHOMM/VOSSEN — 2015

- Analysis of 72 electronic marketplaces where data is sold
- Identification of two segmented markets

# Skills

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|---|---|
| **Programming** | R (advanced skills in statistical computing, algorithm design, computational optimisation, and parallel programming), Python (basic skills), SPSS (basic skills) |
| **Languages** | German (native), English (fluent), Portuguese (fluent), French (basic) |