

Christoph Stich

PHD STUDENT · DATA SCIENTIST

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“Errors using inadequate data are much less than those using no data at all - Charles Babbage”

Summary

Data scientist with a strong quantitative and interdisciplinary background. Extensive experience in big data, applied machine learning, and statistics. Passionate about explaining data science to non-technical audiences. Extensive experience in managing and conducting data science projects as part of my PhD. Ability to quickly, efficiently, and independently learn new skills and methods.

Education

University of Birmingham

PHD URBAN AND REGIONAL SCIENCE

Birmingham

2014-2018 (expected)

- Using machine learning and statistics to research the interplay between human mobility and social networks; ESRC scholarship

University of Amsterdam

M.Sc. URBAN STUDIES

Amsterdam

2011-2014

- Interdisciplinary course on understanding cities with a personal focus on network analysis; Cum Laude

University of Vienna

B.A. SOCIOLOGY

Vienna

2007-2011

- Comprehensive training in social scientific research methods and statistics; scholarship of excellence

Work Experience

University of Birmingham

RESEARCH ASSISTANT

Birmingham

2018

- Working on a project that utilises the British Population Survey to explain the determinants of individual internet usage and online shopping patterns in the UK.

Home Office

ESRC INTERNSHIP + STATISTICIAN

London

2017

- Developed statistical models to assess whether stop and search practices by the police are linked to knife crime
- Wrote and presented findings internally to the policy group

Technical University of Denmark

RESEARCH VISIT

Copenhagen

2015

- Visited the lab of Dr Sune Lehmann as part of my PhD

University of Birmingham

RESEARCH AND TEACHING ASSISTANT

Birmingham

2014 - 2016

- Developed programs in R to run analysis on the high performance cluster of the university
- Taught network analysis to undergraduate students

HoldemResources

SOFTWARE DEVELOPER

Vienna

2014

- JAVA programmer; processing data from various sources

Skills

Machine Learning

classification, regression, clustering, ensemble learning, neural networks

Statistics

time series and regression models, hypothesis testing, principal component analysis, network analysis

Fluent

Python: scikit-learn, numpy, scipy, geopandas, pandas, jupyter-notebooks

Conversationally fluent

R: ggplot, caret, dplyr; SQL, MongoDB, Linux, LaTeX