Fabian Gunzinger

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I work at the intersection of data science, causal inference, and applied economics. I love solving problems, learning, teaching, and writing beautiful code to build reliable infrastructure to analyse data at scale. My technical skills are complemented by an ability to move fluently between the abstract and the concrete, take both a scientific and a business perspective, and see the essence of problems, which helps me understand them deeply, solve them effectively, and communicate them clearly. I also enjoy driving initiatives, managing projects, and ensuring that the right things are done right.

SKILLS

Causal inference | experiments | quasi-experimental methods | applied economics | Python | R | Stata | SQL/GBQ | Bash | Make | Git | AWS (IAM, S3, EC2) | clear writing and speaking | teaching | mentoring

WORK EXPERIENCE

Data scientist – Experimentation and causal inference | Just Eat Takeaway | Nov 2022–present
As part of the company's central data science team focused on experimentation and causal inference, I
- develop and deploy advanced experimentation methods at scale
- develop and disseminate best practices for experimentation and causal inference
- advise product teams across the company on their experiment designs
- teach statistics and causal inference to data scientists across the company

Data scientist | tracktheeconomy.ac.uk | Jun 2021–Jun 2022
This research institute was established to provide real-time economic tracking. As the first data scientist on the team, I
- designed and built an interactive dashboard to track the UK economy in real time
- built automated preprocessing pipelines for data assets such as financial transaction data and mobile phone location data
- managed the teams computing and data resources on AWS and taught colleagues how to use them
- liaised with private-sector partners to ensure data access

Researcher | Behavioural Insights Team | Oct 2018–Dec 2019
BIT helps clients design behaviour interventions and tests their efficacy using causal inference methods. As a researcher, I
- worked as lead analyst on cross-functional teams in areas such as education, international development, and policing
- designed, implemented, and analysed large-scale field experiments and quasi-experimental evaluations
- built a program to automate the visualisation of survey-results
- trained and mentored colleagues in Stata programming and statistical methods

Economist | Swiss National Bank | Apr 2013–Apr 2015
The SNB is Switzerland's central bank. As a speechwriter and advisor to the Vice Chairman, I
- wrote speeches explaining central bank policy to the public
- prepared and attended briefings for the quarterly monetary policy assessments

Research scientist | Center for Health, Policy and Economics, University of Lucerne | October 2014 & May 2015
I worked on a large project studying the link between socioeconomic status and health behaviour in Switzerland and I
- performed the analysis for the project using quasi-experimental methods
- produced programs for data visualisation

Research assistant | Swiss Economic Institute, ETH Zurich | Sep 2009–May 2013
As the personal research assistant to the head of the institute, I
- built datasets and performed independent analysis for various research projects
- wrote a Stata program to create fan-charts for the institute's flagship publication

EDUCATION

PhD in Behavioural Science | Warwick Business School | Sep 2019–Sep 2022
I used data from a FinTech app and econometrics and machine learning methods to study how people manage their money

MPhil in Economics | University of Oxford | Sep 2015–Aug 2017
In my thesis, I used a dataset of 15mn loan contracts to study bank-firm relationships using a matching algorithm

MSc in Economics | University of Bern | 2012–2014
I specialised in econometrics and causal inference

BSc in Economics | University of Bern | 2009–2012

TEACHING EXPERIENCE

Teaching assistant | Warwick Business School | Spring 2021
I helped teach a course on machine learning and R programming

Private tutor | The Profs | Aug 2016–Oct 2018
I tutored undergraduate, graduate, and MBA students from leading UK universities in econometrics and microeconomics

PUBLICATIONS

Levelling Down and the COVID-19 Lockdowns: Uneven Regional Recovery in UK Consumer Spending (with John Gathergood, Benedict Guttman-Kenney, Edika Quispe-Torreblanca and Neil Stewart), *CEPR Covid Economics*, 2021, vol. 67, pp. 24-52

It's Politics, Stupid! Political Constraints Explain Government's Reactions to the Great Recession (with Jan-Egbert Sturm), *Fiscal Politics* (a book published by the International Monetary Fund), 2017, pp. 177-213. (This is a reprint of the original article below.)

It's Politics, Stupid! Political Constraints Explain Government's Reactions to the Great Recession (with Jan-Egbert Sturm), *Kyklos*, 2016, vol. 69(4), pp. 557-636. (The paper is a version of my undergraduate thesis.)

AWARDS

PhD enrichment student at the Alan Turing Institute, the UK's national institute for data science and AI, 2022–2023
Warwick Business School scholarship, full funding for PhD studies, 2019–2023
Berrow scholarship, full funding for MPhil studies at the University of Oxford, 2015–2017
Faculty prize for graduating with highest honours (top 5 %) in MSc in Economics, University of Bern, 2014
Participant of the 11. Carroll Round, a selective undergraduate conference at Georgetown University, Washington D.C., 2012

LANGUAGES

German (Native)   **English** (Fluent)   **French** (Basic)