

# JULIAN STREYCZEK

PhD Candidate in Economics

## Contact

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## Skills

**Causal inference:** Generalized linear models, difference-in-differences, instrumental variables, regression discontinuity, causal forests, debiased machine learning, matching, synthetic controls, censoring, bootstrapping

**ML:** Random forests, boosting, penalization, cross-validation, hyper-parameter tuning, optimization, clustering, transformers, dimensionality reduction, feature engineering

**Other:** Cloud computing, APIs, prompt engineering, natural language processing, web scraping, embeddings, parallelization

## Coding



**Python:** pandas, numpy, sklearn, xgboost, sqlite3, gensim, spacy, BERTopic, openai, requests, bs4, matplotlib, seaborn



**R:** tidyverse, dplyr, rvest, sf, fixest, mlr3, ggplot2



**Tools:** GitHub, PyCharm, Slurm, BigQuery, MTurk



**Other:** SQL, Git, Stata, Matlab, LaTeX, Julia, Docker, HTML, CSS

## Languages

- **German** (native)
- **English** (fluent)
- **Italian** (basic)

## Education



**PhD Economics, Bocconi University, Italy**

Sep 2020 - Jan 2026

- **Thesis:** Applied a diverse set of statistical methods to extract causal insights from complex observational data
  - Demonstrated that paywalls on US newspaper websites reduced political engagement by shifting news consumption patterns
  - Designed and implemented a novel strategy to identify effects of academics' Twitter usage on productivity, networks, and topics
  - Led and coordinated a team of ten research assistants
- **Advisors:** Guido Tabellini, Carlo Schwarz, Luca Braghieri
- **Awards:** German Academic Scholarship Foundation, Bocconi PhD Merit Scholarship, Invernizzi Scholarships 2024, 2025



**Visiting Fellow, Harvard University, United States**

Jan - May 2025

- **Host:** Jim Snyder



**MSc Economics, Mannheim University, Germany**

2018 - 2020

- **Thesis:** Extended regression discontinuity methods to high-dimensional settings by incorporating Lasso variable selection
- **Grade:** 1.0 / 5.0 with distinction



**BSc Economics, Mannheim University, Germany**

2014 - 2018

- **Thesis:** Showed inverse-u relationship between competition and innovation among apps using description text-based clustering
- **Grade:** 1.4 / 5.0 (top 10%)



**Abitur, Internatsschule Schloss Hansenberg, Germany**

2014

- Skipped grades 3 and 9 within programs for gifted students

## Work Experience



**Teaching & Research assistant, Bocconi University, Italy**

- **Teaching:** Created and delivered lectures teaching complex applied and theoretical concepts to graduate and undergraduate students; supported instruction and assessments **Since 2021**
- **Research:** Analyzed large administrative data to generate insights into drivers of individuals' relocation decisions **2022**



**Research assistant, ZEW – Leibniz Institute for European Economic Research, Germany**

2018 - 2019

- Supported research on competitive practices on online booking platforms and app stores by conducting data cleaning, visualization, analysis, and presentation



**Consulting Intern, EY Innovalue, Germany**

2018

- Engaged directly with clients to deliver market insights and supported strategic decisions for payment technology provider
- Optimized credit card contracts for international bank

## Other

- **Violinist** at University Orchestra Mannheim **2015 - 2019**
- **Member & Elected Representative** at Student Union Economics, University of Mannheim **2014 - 2019**
- **Certified skiing instructor** in Tyrol, Austria **2015 - 2017**