

# JULIAN STREYCZEK (he/him)

PhD Candidate in Economics

with 5+ years of experience in causal inference, machine learning, and data work in Python

## Contact

 [julianstreyczek.github.io](https://julianstreyczek.github.io)

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## Skills

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

**Machine Learning:** Supervised and unsupervised learning, tree-based models, boosting, penalization, feature engineering, cross-validation, parameter tuning, model evaluation, clustering, dimensionality reduction

**Other:** Cloud computing, APIs, NLP (text), embeddings, geospatial data, web scraping, parallelization

## Coding

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

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

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

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

## Languages

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

2026-01-20

## Education

### PhD Economics, Bocconi University, Italy

Sep 2020 - Jan 2026

- **Research:** Conducted applied research using natural experiments and observational data to uncover causal effects of digital technologies on individual behavior: Building data pipelines, labeling variables via humans, text NLP, and LLMs, defining metrics, formulating hypotheses, designing, running, and analyzing statistical tests, visualizing and communicating results.
  - Showed that news subscriptions in the US reduced newspapers' web traffic by 25%, and overall factual knowledge and voting turnout by 1-2%
  - Designed and implemented a novel identification strategy to show that academics' Twitter usage improved productivity, networks, and topics
  - Led a team of ten research assistants to execute human data labeling
- **Awards:** German Academic Scholarship Foundation, Bocconi PhD Scholarship, Invernizzi Scholarship 2024, 2025 (€100,000+ in total)
- **Presentations (selected):** NABE Tech Economics Conference 2025 (Seattle), AI & Economics Workshop (Zurich), Econometric Society European Winter Meeting 2025 (Nicosia), Harvard Brown-Bags (Cambridge)

### Visiting Fellow, Harvard University, United States

Jan - May 2025

- **Host:** Jim Snyder

### MSc Economics, Mannheim University, Germany

2018 - 2020

- **Thesis:** Developed and tested a regression discontinuity estimator for high-dimensional settings by incorporating Lasso selection for control variables
- **Grade:** 1.0 / 5.0 (1.0 is best), with distinction

### BSc Economics, Mannheim University, Germany

2014 - 2018

- **Thesis:** Developed new measure of competition among mobile apps using description text clustering to show inverse-u relationship with innovation
- **Grade:** 1.4 / 5.0 (1.0 is best), top 10%

### Abitur

2014

- Skipped grades 3 and 9 within programs for gifted students

## Work Experience

### Teaching & Research Assistant, Bocconi University, Italy

since 2021

- **Teaching:** Created and delivered lectures teaching applied and theoretical concepts to students; supported instruction and assessments: Data & ML in Research, Microeconomics (Undergraduate), Political Economy (Graduate)
- **Research:** Analyzed large administrative data to generate insights into drivers of individuals' relocation decisions due to political preferences

### Research Assistant, ZEW – Leibniz Institute for European Economic Research, Germany

2018 - 2019

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

### Consulting Intern, EY Innovalue, Germany

2018

- Engaged directly with clients to deliver market insights and support strategic decisions for payment technology provider

## Other

- Volunteer Student Mentor at Internatsschule Schloss Hansenberg

since 2024

- Violinist at University Orchestra Mannheim

2015 - 2019

- Member & Elected Representative at Student Union Economics

2014 - 2019

- Certified skiing instructor in Tyrol, Austria

2015 - 2017