

Simon Neumeyer

Barcelona / Zurich

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Senior Data Scientist / Data Engineer with 6+ years of experience building robust, production-grade Python data pipelines for analytics, machine learning, and AI systems. Strong background in large-scale data ingestion, transformation, and feature engineering across structured and unstructured data, supporting downstream ML, computer vision, and emerging LLM-based workflows in cloud environments.

Professional Experience

The World Bank Group — Data Scientist

Barcelona, Spain

04/2021 – Present

Built and maintained end-to-end data pipelines for large-scale analytics and applied machine learning (including computer vision, geospatial data science) supporting impact evaluations in transport, mobility, and financial inclusion projects.

- **Public transit experiment (Lagos, Nigeria):** developed daily ingestion and analytics pipelines to track usage patterns and performance metrics.
- **Global decarbonization project:** worked with >100TB of geospatial mobility data to estimate average daily travel distances across ~120 countries.
- **Road safety impact evaluation (Addis Ababa):** applied computer vision and ML (YOLO, DeepSORT) to extract behavioral metrics from video data.
- **Credit impact evaluation (Kosovo):** applied ML and statistical analysis to identify drivers of access to credit and predict potential MSME borrowers.
- Collaborated with cross-functional teams to translate analytical results into reusable data products and insights for complex, data-driven projects.
- **Generative AI & LLMs:** completed advanced online training to bridge classical ML expertise with recent GenAI developments (Prompting, embeddings, fine-tuning, RLHF, RAG-style pipelines)

Novartis — Data Scientist

Barcelona, Spain

10/2021 – 04/2022

- Rewrote and refined internal cost-prediction models, improving robustness, interpretability, and alignment with business metrics.

The Boston Consulting Group (BCG) — Data Scientist

Barcelona, Spain

04/2019 – 09/2020

- Applied optimization, forecasting and statistical modeling to pricing, demand, and performance problems for large clients.
- Projects included grocery price modeling and COVID-era demand forecasting for a leading beauty retailer.
- Translated ambiguous business questions into structured analytical problems and executive-ready insights.

Pompeu Fabra University & IESE Business School — Research Assistant

Barcelona, Spain

06/2018 – 04/2019

- Built and trained machine-learning models (including RNNs in Python) and prepared large datasets for applied research in economics and behavioral analysis.

Education

Barcelona School of Economics — Barcelona, Spain

MSc in Data Science

09/2020 – 07/2021

GPA: 8.4 / 10 (Excellent)

- Core coursework in Machine Learning, Statistical Modeling, Discrete & Continuous Optimization.
- Advanced econometrics and causal inference: panel regression, time series, IV, DiD, RDD, etc.
- Strong implementation focus: built models and estimators from scratch in Python rather than relying on black-box libraries.

Barcelona School of Economics — Barcelona, Spain

MSc in Economics

09/2017 – 07/2018

GPA: 8.1 / 10 (Excellent)

- Master's thesis: Spillover Effects from the Financial Sector: A Network Analysis for the Eurozone (9.5/10), published in UPF repositories; summary featured by the Barcelona School of Economics.

University of Zurich — Zurich, Switzerland

BA in Economics

09/2013 – 04/2017

GPA: 5.1 / 6 (Magna Cum Laude)

- Bachelor thesis: *Innovation and Top Income Inequality – A European Study* (6/6).

Languages & Technical Skills

Languages: German (Native), English (Fluent), Spanish (Professional), French (Intermediate)

Technical Skills: Python, SQL, AWS (S3, SageMaker), Git, Shell, R, Stata, QGIS; Generative AI & LLMs (prompt engineering, embeddings, fine-tuning, retrieval-augmented generation)

Additional Information

- BSE partial tuition fee waiver for MSc Data Science (academic merit).
- 3rd prize winner, Novartis Datathon 2020 (60+ international teams).
- Swiss nationality.