

TOBIAS BROCK

 Tobias-Brock  in/tobias-brock  Google Scholar  t.brock@stat.uni-muenchen.de

SKILLS

Programming Python, R, SAS, SQL, VBA
Languages German (native), English (fluent), Spanish (B1)

EDUCATION

Ludwig Maximilians University August 2025 - Present
PhD Candidate in Computational Statistics and Data Science — LMU Munich
· Statistical learning under non-stationarity.

Monash University / University of Sydney March - April 2026
Visiting Researcher at the department of Business Statistics/Analytics

Ludwig Maximilians University October 2022 - June 2025
M.Sc. Statistics and Data Science — Major Machine Learning (Grade: 1.01)
· Thesis: Statistical learning algorithms for non-stationary time series (1.00).

Manchester Metropolitan University September 2020 - January 2021
Erasmus Banking and Insurance — Major International Finance

Heilbronn University September 2018 - October 2022
B.A. International Business — Major Finance and Accounting (Grade: 1.5)
· Thesis: On the equivalence of tree-based ensemble learners with decision trees (1.0).

EXPERIENCE

Munich Center for Machine Learning (MCML) August 2025 - Present
Doctoral Researcher in Machine Learning — Department of Statistics, LMU Munich
· Funded by the Munich Center for Machine Learning (PhD Call 2025).

Ludwig-Maximilians-University Hospital June 2025 - Present
Researcher — Department of Conservative Dentistry and Periodontology, University Hospital
· Lead developer of the "periomod" Python package for periodontal modeling.

Atruvia AG June 2024 - June 2025
Working Student Data Science — Tribe Advanced Intelligence
· Extended generation of artificial ID cards with flexible address generation approaches using Phi 3.
· Implemented a MinHash LSH deduplication algorithm to achieve approximate linear runtime.

Ludwig-Maximilians-University December 2022 - March 2024
Student Assistant — Chair of Statistical Learning and Data Science
· Created benchmarks, slides and visualizations for Supervised and Advanced Machine Learning.

Mercedes-Benz Bank AG March - August 2021
Intern Credit Retail and Artificial Credit Intelligence — Risk Steering and Analytics
· Completely overhauled monitoring of machine learning processes for automated credit decisions.
· Analyses for optimizing the automation rate through simplified post-approval in contract changes.

Heilbronn University November 2019 - August 2022
Student Assistant and Tutor — Faculty of International Business/Computer Science
· Statistics, Econometrics, Micro- and Macroeconomics, Logic and Artificial Intelligence.

Schülerhilfe Eppingen August 2018 - October 2022
Tutor — All school levels and classes