

# Christian Hobelsberger

Munich, Germany | [linkedin.com/in/christian-hobelsberger](https://www.linkedin.com/in/christian-hobelsberger) | contact: [christian.hobelsberger-muc.de](mailto:christian.hobelsberger-muc.de)  
Github: [christian-hobelsberger](https://github.com/christian-hobelsberger)

## EDUCATION

---

### LUDWIG-MAXIMILIANS-UNIVERSITÄT MÜNCHEN (LMU)

Master of Science (M.Sc.)  
Statistics and Data Science

Munich, Germany  
Oct 2023 - Expected July 2026

### LUDWIG-MAXIMILIANS-UNIVERSITÄT MÜNCHEN (LMU)

Bachelor of Science (B.Sc.)  
Major in Statistics; Minor in Computer Science  
GPA: 1.3 (3.7/4.0 American GPA); Top 10%

Munich, Germany  
Oct 2020 - July 2023

Bachelor Thesis (GPA 1.0; 4.0/4.0 American GPA): The impact of pandemic restrictions on mental health during COVID 19 in Germany

Relevant Coursework: Generalized Regression; Linear Models; Introduction to Machine Learning; Calculus 1 & 2

### Gymnasium Munich Moosach

GCE A-Levels / Abitur  
GPA: 2.0 (3.0/4.0 American GPA)

Munich, Germany  
- June 2020

Exams: mathematics; English; economics; computer science; German  
Founder and Head of the school chess club

## WORK EXPERIENCE

---

### TELEFÓNICA GERMANY

Data Science Working Student

Munich, Germany  
Jun 2021 – Present

- Developed an application from scratch using Python and the Gitlab API, seamlessly enabling collaboration between teams for over 100 employees  
Tools used: Python, Gitlab-API, Docker, Gitlab-CI/CD, Scheduler
- Retrained a machine learning model in Python for alarm generation on financially-relevant time series data, resulting in improved aggregation of alarm periods and a clear reduction of false alarms by 33%  
Tools used: Python, SQL, Microsoft Azure Databricks
- Compiled a large, labeled dataset from various data sources using complex SQL queries, and subsequently implemented automated plausibility checks using cloud computing resources  
Tools used: Python, SQL, Oracle/Apache Hive Database
- Conducted statistical analysis and tuned the parameters of the STL function for an alarm-generating machine learning model to better detect level shifts  
Tools used: Python (statsmodels STL, scikit-learn)

### AFTER-SCHOOL CARE (Gymnasium Munich Moosach)

Afternoon caregiver

Munich, Germany  
Jun 2019 – Present

- Professional support for students in grades 5-8 in various subjects
- Management of a weekly chess program that allows students to learn and explore the game of chess

## VOLUNTEERING & UNIVERSITY PROJECTS

---

### IMPACT OF PANDEMIC RESTRICTIONS ON MENTAL HEALTH (BACHELOR THESIS) Apr 2023 - July 2023

[github.com/christian-hobelsberger/CTIS-Mental-Health-Restrictions](https://github.com/christian-hobelsberger/CTIS-Mental-Health-Restrictions)

- Utilized the large dataset (> 500,000 data points) from the Global COVID-19 Trends and Impact Survey in combination with Corona data Germany to examine the impact of pandemic restrictions on mental health during COVID 19 in Germany  
Tools used: R, LRZ Linux Cluster (computational resources), LaTeX

## MULTIVARIATE ANALYSIS OF CLIMATOLOGICAL AND HYDROLOGICAL LOW WATER DRIVES IN BAVARIA (STATISTICAL INTERNSHIP)

Feb 2023 - Apr 2023

[github.com/StatPrak-Droughts](https://github.com/StatPrak-Droughts)

- Conducted in-depth analysis of a vast dataset spanning 30 years (1990-2020) from 3 river gauges in hydrological Bavaria
- Developed and implemented Generalized Additive Models (GAMs) with a binomial distribution to predict low water events, employing driver-specific splines and quantile distribution analysis

Tools used: R (Shiny), LRZ Linux Cluster (computational resources), LaTeX

## CTIS MENTAL HEALTH PROJECT

Oct 2022 - Mar 2023

[github.com/christian-hobelsberger/CTIS-Seminar](https://github.com/christian-hobelsberger/CTIS-Seminar)

- Utilized the very large dataset (66,000,000 data points) from the Global COVID-19 Trends and Impact Survey to examine the mental health in relation to variables such as age, education level, etc. during the COVID-19 pandemic in R
- Created an interactive R Shiny web app that allows users to view mental health levels over time on world maps or examine the impact of different covariables with more than 100 possible combinations of features

Tools used: R (Shiny), LRZ Linux Cluster (computational resources), LaTeX

## ESG DATA SCIENCE DAY - Munich Re

Oct 2022

- Explored the topics of Environmental, Social, and Governance (ESG) and data
- Presented a proposed insurance solution for wind turbine failure in Europe as part of a coding competition at Munich Reinsurance Company

## PARTICIPATION IN THE “gemeinsam.Brücken.bauen” PROJECT Sep 2021

- Supporting students in closing coronavirus-related learning gaps on behalf of the Bavarian state government
- Lessons in math at the Gymnasium München Moosach during the summer vacations

## TUTOR

June 2018 – Aug 2021

- Lessons in math, physics and computer science for high school students which led to improved grades

## ACTIVITIES

---

### CHESS CLUB

Founder & Manager

Munich, Germany

Dez 2018 - Present

[gym-muc-moosach.musin.de/faecher/schachklub](https://gym-muc-moosach.musin.de/faecher/schachklub)

- Founded the school's own chess club and thus established another space for the intellectual development of the students
- Organized large chess tournaments with over 120 participants
- Won the 3rd place of the munich school chess-team championship 2019 in competition-class 2

### STATISTICS STUDENT COUNCIL (LMU)

Financier & elected member

Munich, Germany

Oct 2020 - Present

[fachschaft.statistik.uni-muenchen.de](https://fachschaft.statistik.uni-muenchen.de)

- Leading financier of the statistics student council
- Managing and administering the finances of the student council and representing the interests of the students

### CHESS COACH

Apr 2019 - Dez 2021

- Teaching chess to kids at my local chess club “Schachfreunde München”

## ADDITIONAL

---

**Technical Skills:** Python, R, SQL, Java, LaTeX, Microsoft Office 365, Jira, Azure (Databricks), Github, Gitlab, Tableau

**Languages:** German, English (B2+/C1)

**Certifications & Training:** Artificial Intelligence Foundations, Tableau Essential Training (2020.1) (LinkedIn)

**Interests:** Member of Mensa in Deutschland e.V. (Association for the highly gifted), Chess, Sailing, Swimming