Nina Mogan **Mainusch**

Avenue des Bains 9c, 1007 Lausanne, Switzerland

(+49) 152 - 54128494 | ✉ Nina.Mainusch@protonmail.com | Nina-Mainusch | in nina-mainusch |

04.04.1997 | German

Education

M.Sc. in Data Science
Lausanne, Switzerland

École Polytechnique Fédérale de Lausanne
Sept. 2020 - Aug. 2022

- Data science is an interdisciplinary field that uses scientific methods, processes, algorithms and systems to extract knowledge and insights from many structural and unstructured data, therefore unifying statistics, data analysis, machine learning, domain knowledge and their related methods.

B.Sc. in Cognitive Science, grade 1.1 with distinction
Osnabrück, Germany

University of Osnabrück
Oct. 2016 - April 2020

- Study of thought, learning and mental organization, drawing on aspects of artificial intelligence, machine learning, computer science, mathematics, computational neuroscience and computational modelling.
- Semester abroad in Portugal at the Universidade Nova de Lisboa, Faculdade de Ciências e Tecnologia from Aug. 2018 - Feb. 2019.
- Thesis: "On Benford's law - Computing a Bayes factor with the Savage-Dickey method to quantify conformance of numerical data to Benford's law", grade 1.0

B.A. Romance and English studies
Düsseldorf, Germany

Heinrich-Heine Universität Düsseldorf
Oct. 2015 - Sep. 2016

- Study of the Spanish and English language and literature.

Higher School Certificate, grade 1.0 with distinction
Viersen, Germany

Erasmus-von-Rotterdam Gymnasium
2007 - 2015

- Specialization in history, German, mathematics and Latin. Best higher school certificate of all students that ever graduated from my school: Link to newspaper article (in German).

Experience

Internship in (Forensic) Technology Solutions & Data Mining
Düsseldorf, Germany

PricewaterhouseCoopers International
July 2021 - Sep. 2021

I worked for PwC in the advisory business line, examining real-world data sets (transactional and master data) in ERP and other systems for evidence of white-collar crime, fraud patterns, and anomalies in a team of experienced consultants.

Mentor for Statistic related subjects
Online

Self-employed
Apr. 2020 - Apr.2021

- I tutored 1 - 6 students from different universities in introductory or advanced university course or their Bachelor and Master Thesis.

Tutor for several lectures
Osnabrück, Germany

University of Osnabrück
Oct. 2017 - Mar. 2020

- Lecture names: "Machine Learning", "Statistics and Data Analysis", "Neuroinformatics", "Computer Science 1: Algorithms" and "Introduction to Artificial Intelligence and Logic Programming"
- In "Machine Learning" and "Computer Science 1" I supervised six-eleven groups of two-three students which I asked questions about the lecture content and about their assignment solutions. For the other lectures, I helped prepare the assignment sheets and the exam, gave a weekly tutorial session and corrected weekly assignments.

Lecturer for Preliminary Course in Mathematics
Lingen, Germany

University of Applied Sciences Osnabrück
Sept. 2019

- I gave daily lectures about the mathematical foundations.

Lifeguard
Mönchengladbach, Germany

NEW AG
May 2016 - Oct. 2016

- I supervised the safety of swimmers.

Scholarships

Studienstiftung des Deutschen Volkes e.V.

SCHOLARSHIP HOLDER   *Nov. 2020 - Present*

- The German Academic Scholarship Foundation is Germany's largest, oldest and most prestigious scholarship foundation. In line with its statutes, it supports "the university education of young people who, on account of their exceptional academic or artistic talents and their personalities, can be expected to make an outstanding contribution to society as a whole".

DAAD - German Academic Exchange Service

SCHOLARSHIP HOLDER   *June 2021 - Present*

- The German Academic Exchange Service was founded in 1925 and is the largest German support organisation in the field of international academic co-operation.

e-fellows.net

SCHOLARSHIP HOLDER   *Oct. 2015 - Present*

- e-fellows.net was founded in 2000 by McKinsey, Telekom and Holtzbrinck as a talent network for very good students.

Voluntary Work

LUC Voile   *Lausanne, Switzerland*

COMMITTEE MEMBER   *Aug. 2020 - Mai 2021*

- I joined the committee of the University sailing club LUC Voile where I was responsible for the boat maintenance.

Volt Europa   *Europe*

PARTY MEMBER   *May 2019 - Present*

- I support local activities of the party and the data science team in analyzing election data.

Deutscher Hochseesportverband Hansa e.V.   *Glücksburg, Germany*

SAILING INSTRUCTOR   *2014 - Present*

- Voluntary sailing instructor for kids, adolescents and adults at Hanseatische Yachtschule in Glücksburg, a sailing school operated by Deutscher Hochseesportverband Hansa e.V. (DHH) – personal focus: performance oriented keel boat sailing.

Programming Skills

Programming Languages	Python - R - LaTeX - JAVA - Prolog - Matlab
Web Technologies	HTML - CSS - Javascript
Databases	SQL - Excel
Big Data	Spark - Hadoop
Platforms/ Tools	Linux - Windows - IntelliJ Idea - Atom

Language Skills

German	native speaker	*CEFR C2*
English	fluent in written and spoken	*CEFR C1*
French	fluent in written and spoken	*CEFR C1*
Spanish	good knowledge in written and spoken	*CEFR B2*
Portuguese	good knowledge in written and spoken	*CEFR B1*
Ancient Greek	good knowledge in translating texts	
Latin	advanced knowledge in translating texts	*Latinum Certificate*

Interests

Interest	History - Biographies - Politics - Foreign languages
Hobbies	Reading - Programming - Data Analysis - Statistics - Deep Learning - Big Data
Sports	Sailing - Ballet - Yoga - Climbing - Skiing - Hiking - Dancing - Chess - Sudoku