# Adrian Maurice MÜLTHALER

🌐 muelthaler.com 　　 ⊙ nairdanus

## Education

**10.2024 – 09.2026** 　 🔖 **M.Sc., Ludwig-Maximilian-University of Munich** in Computational Linguistics and Computer Science.
Current grade: 1.00

**10.2021 – 09.2024** 　 🔖 **B.Sc., Ludwig-Maximilian-University of Munich** in Computational Linguistics and Computer Science.
Overall grade: 1.13 (GPA 95.67%)
Thesis title: *Simulating Circuits in Quantum Natural Language Processing using Tensor Networks.*

**07.2021** 　 🔖 **European Baccalaureate, European School Munich**
Grade: 93.54%

## Employment History

**since 03.2024** 　 🔖 **Student Research Assistant for MUNIQC-Atoms,**
🏛 Munich Network Management Research Group, LMU Munich
　📁 Developing a Visual Programming Interface for MBQC
　　▸ Building a C++ backend server using Crow
　　▸ Building a TypeScript frontend server using React

**09.2024 – 02.2024** 　 🔖 **Student Research Assistant,**
🏛 Center for Information and Language Processing, LMU Munich
　📁 Collaborative Research Center for Expert-AI Cooperation
　📁 Accreditation of Computational Linguistics Study Program
　　▸ Formatting and Organizing Complex Documents in LaTeX

**04.2024 – 08.2024** 　 🔖 **Tutor for Introduction to Quantum Computing,**
🏛 Institute for Informatics, LMU Munich
　▸ Introduction to Quantum Mechanics
　▸ Quantum Bits / Registers
　▸ Entanglement, Quantum Teleportation, Dense Coding
　▸ Quantum Algorithms e.g. Grover's, Shor's, VQA
　▸ Quantum Cryptography

🔖 **Tutor for Mathematical Methods in Computational Linguistics,**
🏛 Center for Information and Language Processing, LMU Munich
　▸ Discrete Mathematics
　▸ Linear Algebra
　▸ Stochastics

## Employment History (continued)

10.2022 – 02.2025     **Tutor for Introduction to Computational Linguistics,**
🏛 Center for Information and Language Processing, LMU Munich
- ▶ Introduction to Linguistics
- ▶ Automata Theory / Context-Free Grammars
- ▶ Statistical Language Models e.g. Naive Bayes, Hidden Markov Models

11.2021 – 09.2023     **Working Student in the field of Data Science,**
🏢 Knowlix GmbH
- ▶ Data Generation with Jinja2 and HTML/CSS templates
- ▶ Web Scraping using Python

## Skills

Coding &lt;/&gt;
- 🐍 Python
- Ⓖ C++
- ☕ Java
- Haskell

Web Dev 🌐
- HTML
- CSS
- JS JavaScript
- 💡 LAMP Web Server with django

Languages 🅰️
- German - Native Speaker
- Romanian - Native Speaker
- English - Proficient (IELTS: Band 8)
- Spanish - Basic Proficiency
- French - Limited Proficiency ($A2+$)
- Chinese - Limited Proficiency ($HSK2$)

## Research Publications

❝ S. Loftus, **A. Mülthaler**, S. Hoeken, S. Zarrieß, and O. Alacam, "Using LLMs and preference optimization for agreement-aware HateWiC classification," in *Proceedings of the The 9th Workshop on Online Abuse and Harms (WOAH)*, A. Calabrese, C. de Kock, D. Nozza, F. M. Plaza-del-Arco, Z. Talat, and F. Vargas, Eds., Vienna, Austria: Association for Computational Linguistics, Aug. 2025, pp. 538–547, ISBN: 979-8-89176-105-6. 🔗 URL: https://aclanthology.org/2025.woah-1.47/.

## Miscellaneous

### Extracurricular Activities

Student Council for Computational Linguistics
| | |
|---|---|
| 10.2025 – 10.2026 | Chair |
| 10.2024 – 10.2025 | Student Representative at the Faculty Committee for Study Grants |
| 10.2024 – 10.2025 | Elected Representative in the Faculty Council |
| 10.2024 – 10.2025 | Delegate to the Student Representative Council |
| since 01.2024 | Member |

# Miscellaneous (continued)

### Interests

- Quantum Computing
- Natural Language Processing
- Free and Open-Source Software

### Hobbies

- Football
- Bouldering
- Sailing