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: 1.04

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

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

Employment History

10.2025 – 02.2026   🔖 **Tutor for Deep Learning for Natural Language Processing,**
🏛 Center for Information and Language Processing, LMU Munich
- ▶ Deep Learning Basics
- ▶ Transformer Architecture
- ▶ Large Language Models
- ▶ Decoding Strategies
- ▶ Reinforcement Learning from Human Feedback

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

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
- 🐍 Python
- © C++
- ☕ Java
- Haskell

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

🔤 Languages
- German — Native Speaker
- Romanian — Native Speaker
- English — Proficient (IELTS: Band 8)
- Spanish — Basic Proficiency
- French — Limited Proficiency ($A2+$)
- Chinese — Limited Proficiency ($HSK\,2$)

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)*, 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

since 01.2024   Student Council for Computational Linguistics
    10.2025 – 10.2026   Chair
    10.2024 – 10.2025   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

Interests

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