



CORE SKILLS

PythonPyTorchNumPy / Pandas

Scikit-learnLinuxDockerGit

JavaWeb Dev

DOMAINS

- Deep Learning
- Graph Neural Networks
- Bioinformatics
- Drug Discovery
- IT Infrastructure
- Team Leadership
- Photography

LANGUAGES

GermanNative

EnglishC1

CERTIFICATIONS

- CS50's Introduction to Artificial Intelligence with Python - Harvard University (CS50) (2022)
- pm basic - pma - Projekt Management Austria (2021)
- ECDL Standard Certificate - Austrian Computer Society (2017)

PROFILE

AI engineer and MSc student at JKU Linz, specialising in deep learning with a growing research focus on bioinformatics and ML-driven drug discovery. Hands-on experience translating research into practical implementations, most recently extending graph neural network architectures for allosteric binding site prediction. Beyond research, co-founded the JKU Racing Formula Student team from scratch and led its IT department, overseeing infrastructure, setting technical direction, and coordinating the department to deliver internal tooling and systems across the organisation.

EXPERIENCE

11/2022 - Present
~4 years

Photographer and Developer (self-employed)
Nolz Photography · St. Pölten

- Manage the full client lifecycle: acquisition, shooting, post-production and delivery.
- Run all business operations independently, including planning, client communication and invoicing.

05/2025 - 09/2026
~1.5 years

IT Department Lead
JKU Racing Team · Linz

- Own all IT infrastructure (servers, networking, CI/CD and internal tooling) for the whole association with 80+ members.
- Define the technology roadmap and coordinate with department leads on infrastructure priorities.

05/2025 - 03/2026
11 months

Co-Founder & Vice Team Principal
JKU Racing Team · Linz

- Co-founded the Formula Student racing team from scratch; defined operating structure, governance and inter-department workflows.
- Contributed to strategic planning and cross-functional coordination throughout the founding phase.

09/2022 - 06/2023
10 months

Voluntary Environmental Year
Klimabündnis Niederösterreich · St. Pölten

- Contributed to communication and outreach projects on climate and sustainability.
- Supported press and event work with photography and technical assistance.

SELECTED PROJECT

VN-EGNN: Allosteric Binding Site Prediction via Graph Neural Networks
Bachelor work | github.com/tobias-nolz/vnegnn/tree/allosteric-sites

- Extended the original (orthosteric-)site VN-EGNN architecture to predict allosteric binding sites as the primary research contribution.
- Built reproducible experimentation and evaluation pipelines for the adapted task.

EDUCATION

2026 - Present

MLBT, Master's Degree in Legal and Business Aspects in Technics
Johannes Kepler Universität Linz
Interdisciplinary focus on the law and technology intersection. Courses commenced; enrolment pending bachelor thesis submission.

2026 - Present

MSc, Artificial Intelligence
Johannes Kepler Universität Linz
Elective track Life Sciences. Deep learning for life sciences; research interest in bioinformatics and drug discovery.

2023 - 2026

BSc, Artificial Intelligence
Johannes Kepler Universität Linz
Core foundation in machine learning, algorithms, mathematics and software engineering. Bachelor thesis listed under research.

2017 - 2022

School Leaving Diploma (Matura), Informatics
HTBLuVA St. Pölten
Graduated with distinction, final grade 1.0. Focus on business administration and management; diploma thesis on modern web applications.