

Tymoteusz Kwieciński

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WHO AM I

Research software engineer with experience in infrastructure administration, open-source library development, and building machine learning systems for medical imaging, remote sensing, and biomedical data; proficient in **Python**, **PyTorch**, and **C++**; experienced with explainable and reliable ML; interested primarily in visual generative AI, XAI, and HPC systems.

EDUCATION

Eidgenössische Technische Hochschule

Zürich, Switzerland

MSc Computer Science

September 2025 – now

- **Research projects:** Working on detecting hallucinations in the Apertus LLM and applying SAEs to the DINOv3 vision model, with a focus on model reliability and representation learning.
- **Coursework:** Algorithms, high-performance computing, big data systems, and probabilistic methods, building broad CS and ML foundations.

Warsaw University of Technology

Warsaw, Poland

BSc Data Science, GPA 4.87/5, summa cum laude

October 2021 – February 2025

- **Award-Winning Thesis:** *SerolyzeR*, a package for serological data preprocessing developed in collaboration with MI²AI and Pasteur Institute; **Distinction** in the V National Competition for Best CS Thesis.
- **Academic achievements:** Vice-President of Mathematical Science Club (2 years); Rector's Scholarship (4×); Individual Study Plan for top students.

The Academic High School in Toruń

Toruń, Poland

High School, GPA 5.93/6, summa cum laude

September 2018 – May 2021

Laureate of LXXII **Mathematical Olympiad** and 1st place winner of the V **Statistical Olympiad**.

WORK

MI²AI

Warsaw, Poland

Research Software Engineer

July 2023 - September 2025

Core engineer in Prof. Przemysław Biecek's group, building **infrastructure** and **tools** for responsible ML and XAI research in medical imaging and remote sensing.

- **Infrastructure:** Built and administered a **bare-metal Kubernetes cluster** (4 nodes, GPU acceleration) managed with GitOps; deployed research demos, including the ChestChecker app for lung cancer analysis.
- **Research software:** Led development and maintenance of two Python libraries: **meteors** for hyperspectral XAI, developed in collaboration with ESA (~8k downloads), and *SerolyzeR* (~3k downloads).

Polish Reading Research Institute

Warsaw, Poland

Data analyst

April 2023 - June 2023

Part-time role dealing with data visualization and **large-scale survey data** processing for readership insights. Combined survey data with historical magazine sales to manage advertisements in the analyzed magazines.

ONDE S.A.

Toruń, Poland

Data analysis intern

July 2022 - September 2022

Optimized the operation of the **energy storage** system for a PV farm to **increase profits** from energy trading during a summer internship at a renewable energy company.

LANGUAGES

English (**CAE Grade A, C2**), Polish (Native language), Italian (A2), Spanish (A2)