Jolanta Mozyrska

Curriculum Vitae   ✉ *j dot mozyrska at gmail dot com*

———— Education

Sep 2025 - Jun 2029	**University of Oxford**, ***PhD in Artificial Intelligence***.
Oct 2024 - June 2025	**Warsaw University of Technology**, ***Mathematics***, Coursework includes: Advanced Graph Theory, Natural language processing, Abstract Algebra, Statistics.
Oct 2022 - Oct 2023	**University of Oxford**, ***MSc in Advanced Computer Science***, **Grade: Distinction** Thesis: Cardiac Anatomy Generation with Latent Diffusion Models Coursework included: Graph Representation Learning, Deep Learning for Healthcare, Computational Biology, Ethical Computing in Practice, Computational Game Theory, Data Visualization, Requirements Engineering.
Oct 2018 - Nov 2021	**University of Warsaw**, ***BSc in Computer Science***, **Grade: 5 (UK First class equivalent)**, Thesis: Review and comparison of classical and deep learning models for time series forecasting (in cooperation with NVIDIA).

———— Research Experience

Jun 2023 - Nov 2023 & Jun 2024 - Nov 2024	**University of Oxford, Department of Computer Science**, Cardiac anatomy generation with Latent Diffusion Models, **Publication in review** Supervisors: Prof. Bueno-Orovio, Dr. Abhirup Banerjee.
Jul 2024	**London Geometry and Machine Learning Summer School 2024**, Selected for Multimodal Protein Representation Learning project.
Jul 2020 - Oct 2020	**Google, Fit Research Team**, *SWE Intern*, Successfully reproduced a research paper on photoplethysmography signal analysis.

———— Work Experience

May 2022 - Aug 2022	**Google, Operations Research Team**, *SWE Intern*, Added a new optimizer to a Mixed Integer Programming framework. It outperformed a state-of-the-art solver in 70% of instances of a specific type of knapsack problem.
Oct 2021 - Jan 2022	**NVIDIA**, *SWE Intern - AI*, Data preprocessing with NVTabular library.
Jul 2019 - Oct 2019	**Quantitative Engineering Design**, *SWE Intern*, Implemented data validation for Child Health and Mortality Prevention and Surveillance - program supported by the **Bill & Melinda Gates Foundation**.

Conferences and summer schools

Jul 2024 **Eastern European Machine Learning Summer School**,
Selected for poster presentation.

Sept 2023 **Cambridge Centre for AI in Medicine Summer School**,
Cardiac Anatomy Generation with Latent Diffusion Models, Poster presentation,
Scholarship recipient.

Nov 2021 **ML in PL Conference**,
Optimising N-BEATS for the NVIDIA Time-Series Prediction Platform, Poster presentation
of my BSc thesis, `https://conference2021.mlinpl.org/`.

Skills

- Python: Pytorch, Numpy, Pandas
- Modern C++, C
- Git
- problem solving and algorithm design
- teamwork, presentation skills

Leadership and community service

Jan 2025 - **Oxford Women in Computer Science Society**, *Mentor*,
present Providing mentorship to Oxford students.

May 2024 - **Olympiad in Informatics tutoring**,
Oct 2024 Teaching algorithms and data structures to prepare students for Olympiad in Informatics.

Mar 2021 - **ML in PL Association**, *Panel Discussion Officer*,
Jun 2023 An organization devoted to fostering the machine learning community in Poland. I organised
and led a panel discussion on ethics in AI research, with guests from Google Brain and
NYU. `https://conference2021.mlinpl.org/`.

Awards

Sep 2022 - **Intel Corporation & Perspektywy Foundation** - **Scholarship and Mentoring Pro-**
Sep 2023 **gramme „New Technologies for Women"**,
One of the 25 finalists chosen out of 790 applicants.
The committee was choosing the most accomplished Polish women in STEM.

Oct 2020 **Bubble Cup Team Competitive Programming Contest finalist**,
Organised by Microsoft.

Feb 2017 **Polish National Olympiad in Informatics semi-finalist**.