

Jolanta Mozyrska

Curriculum Vitae

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Education

- Oct 2025 - **University of Oxford**,
Jun 2029 **PhD in Fundamentals of AI.**
- Oct 2022 - **University of Oxford**,
Oct 2023 **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 - **University of Warsaw**,
Nov 2021 **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 - **University of Oxford, Department of Computer Science**,
Nov 2023 & Cardiac anatomy generation with Latent Diffusion Models
Jun 2024 - Supervisors: Prof. Bueno-Orovio, Dr. Abhirup Banerjee.
Nov 2024
- Jul 2024 **London Geometry and Machine Learning Summer School 2024**,
Selected for Multimodal Protein Representation Learning project.
- Jul 2020 - **Google, Fit Research Team**, *Intern*,
Oct 2020 Successfully reproduced a research paper on photoplethysmography signal analysis.

Work Experience

- May 2022 - **Google, Operations Research Team**, *Intern*,
Aug 2022 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 - **NVIDIA**, *SWE Intern - AI*,
Jan 2022 Data preprocessing with NVTabular library.
- Jul 2019 - **Quantitative Engineering Design**, *Intern*,
Oct 2019 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*,
Jun 2025 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**
Sep 2023 **Programme „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.**