Jolanta Mozyrska

Curriculum Vitae

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Education

Oct 2025 - Jun 2029 **University of Oxford**,
Doctoral student,
CDT in Fundamentals of AI, Full Scholarship
Supervisors: Prof. Jared Tanner and Prof. Philip Torr.

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, Computational Game Theory, Deep Learning for Healthcare, Computational Biology, Ethical Computing in Practice, 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 [arXiv:2508.14122]
Proposed and implemented MeshLDM, a novel model that generates realistic 3D left-ventricle meshes.
Supervisors: Prof. Bueno-Orovio, Dr. Abhirup Banerjee.

Jul 2020 - Oct 2020 **Google, Fit Research Team**, *Intern*,
Successfully reproduced a research paper on photoplethysmography signal analysis.

Work Experience

May 2022 - Aug 2022 **Google, Operations Research Team**, *Intern*,
Resulted in a novel optimizer for a MIP framework that outperformed SOTA solver in 70% 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**, *Intern*,
Implemented data validation for Child Health and Mortality Prevention and Surveillance - program supported by the **Bill & Melinda Gates Foundation**.

Conferences and summer schools

Dec 2026 **NeurIPS 2026, WiML Workshop (first author)**,
Do You Remember It All Too Well? An Information–Theoretic Taxonomy of Machine Unlearning.

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.

Awards

Sep 2022 - Sep 2023 **Intel Corporation & Perspektywy Foundation - Scholarship and Mentoring 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**.

Skills

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

Leadership and community service

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

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

Mar 2021 - Jun 2023 **ML in PL Association**, *Panel Discussion Officer*,
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/`.