# Jolanta Mozyrska

*Curriculum Vitae*

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## Education

**Oct 2022 - Oct 2023**
**University of Oxford**,
***MSc in Advanced Computer Science***,
**Grade: Distinction**
Thesis: Cardiac Anatomy Generation with Latent Diffusion Models
(Publication in progress)
Coursework: Graph Representation Learning, Deep Learning for Healthcare, Computational Biology, Ethical Computing in Practice, Computational Game Theory, Data Visualization, Requirements Engineering, Topics in Computational Biology.

**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). It involved understanding, re-implementing, and attaching a deep learning model, N-BEATS, to the Time Series Prediction Platform.

## Research Experience

**Jul 2024 - present**
**London Geometry and Machine Learning Summer School 2024**,
Project: Multimodal Protein Representation Learning.

**Jun 2023 - Oct 2023**
**University of Oxford, Department of Computer Science**,
Cardiac anatomy generation with Latent Diffusion Models,
Prof. Bueno-Orovio's research group.

**May 2022 - Aug 2022**
**Google, Operations Research Team**, *Intern*,
Added a new optimizer to a Mixed Integer Programming framework. It outperformed Gurobi (state-of-the-art solver) in 70% of instances of a specific type of knapsack problem.

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

## Conferences and summer schools

**Jul 2024**
**Eastern European Machine Learning Summer School**,
*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**, |
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| | *Optimising N-BEATS for the NVIDIA Time-Series Prediction Platform*, Poster presentation of my BSc thesis, https://conference2021.mlinpl.org/. |

## Work Experience

| Oct 2021 - Jan 2022 | **NVIDIA**, *Software Engineering Intern - AI*, Data preprocessing with NVTabular library, graph generation with R-MAT model. |
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| Jul 2019 - Oct 2019 | **Quantitative Engineering Design**, *Software Engineering Intern*, Implemented data validation for Child Health and Mortality Prevention and Surveillance - program supported by the **Bill & Melinda Gates Foundation**. |

## Leadership and community service

| Nov 2021 - Jun 2023 | **ML in PL Association**, *Member*, A non-profit organization devoted to fostering the machine learning community in Poland. |
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| Mar 2021 - Nov 2021 | **ML in PL Conference**, *Panel Discussion Officer*, Organised and led a panel discussion on ethics in AI research. https://conference2021.mlinpl.org/. |

## 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.* |
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| Jul 2021 - Dec 2021 | **IT for SHE mentoring programme** - **mentee**, *Goal of the program is to help talented women in IT to reach their full potential.* |
| 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

## Languages

| English | IELTS Academic, band score of 8.0 (Nov 2023) |
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| Polish | Native |