

# Jolanta Mozyrska

## Curriculum Vitae

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### Education

- Oct 2022 - **University of Oxford**,  
Oct 2023 *MSc in Advanced Computer Science*,  
Thesis grade: To be received, Coursework 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.
- Oct 2018 - **University of Warsaw**,  
Nov 2021 *BSc in Computer Science*,  
Final grade: 5 (Very Good) (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

- May 2022 - **Google, Operations Research Team**, *Intern*,  
Aug 2022 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 - **Google, Fit Research Team**, *Intern*,  
Oct 2020 Successfully reproduced a research paper on photoplethysmography signal analysis.

### Conferences

- Sept 2023 **Cardiac Anatomy Generation with Latent Diffusion Models**,  
*Cambridge Centre for AI in Medicine Summer School*, Poster presentation,  
Scholarship recipient.
- Nov 2021 **Optimising N-BEATS for the NVIDIA Time-Series Prediction Platform**,  
*ML in PL Conference*, Poster presentation of my BSc thesis,  
<https://conference2021.mlinpl.org/>.

### Work Experience

- Oct 2021 - **NVIDIA**, *Software Engineering Intern - AI*,  
Jan 2022 Data preprocessing with NVTabular library, graph generation with R-MAT model.

- Jul 2019 - **Quantitative Engineering Design**, *Software Engineering Intern*,  
Oct 2019 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 - **ML in PL Association**, *Member*,  
present A non-profit organization devoted to fostering the machine learning community in Poland.
- Mar 2021 - **ML in PL Conference**, *Panel Discussion Officer*,  
Nov 2021 Organised and led a panel discussion on ethics in AI research.  
<https://conference2021.mlinpl.org/>.
- Oct 2018 - **Student Conference on Applied Mathematics "DwuMian"**,  
Mar 2019 **University Of Warsaw**,  
*Chairwoman, co-organiser*.

## 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.*
- Jul 2021 - **IT for SHE mentoring programme - mentee**,  
Dec 2021 *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 and efficient communication
- presentation skills

## Languages

- English IELTS Academic, band score of 8.0  
Polish Native