

# Jolanta Mozyrska

## Curriculum Vitae

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### Education

- Oct 2022 - **University of Oxford**,  
Oct 2023 **MSc in Advanced Computer Science**,  
**Grade: Distinction**  
Thesis: Cardiac Anatomy Generation with Latent Diffusion Models  
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 - **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). It involved understanding, re-implementing, and attaching a deep learning model, N-BEATS, to the Time Series Prediction Platform.

### Research Experience

- Jul 2024 **London Geometry and Machine Learning Summer School 2024**,  
Selected for Protein Representation Learning project.
- Jun 2023 - **University of Oxford, Department of Computer Science**,  
Nov 2023 & Jun 2024 - Cardiac anatomy generation with Latent Diffusion Models,  
Supervisors: **Prof. Bueno-Orovio, Dr. Abhirup Banerjee**  
present Publication in progress.
- 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 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/>.

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## 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**.

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## 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**,  
present Weekly sessions on algorithms and data structures to prepare high school 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/>.
- Oct 2018 - **Student Conference on Applied Mathematics "DwuMIan"**,  
Mar 2019 **University Of Warsaw**, *Chairwoman, co-organiser*.

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## Awards

- Sep 2022 - **Intel Corporation & Perspektywy Foundation - Scholarship and Mentoring Programme „New Technologies for Women”**,  
Sep 2023 *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**.

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## Skills

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