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

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**,
	Optimising N-BEATS for the NVIDIA Time-Series Prediction Platform, 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*,
Jun 2023	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 (Nov 2023)
Polish	Native