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

(Publication in progress)

Coursework: Deep Learning for Healthcare, Graph Representation Learning, Computational Biology, Ethical Computing in Practice, Computational Game Theory, Data

Visualization, Requirements Engineering.

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, reimplementing, and attaching a deep learning model, N-BEATS, to the Time Series Prediction Platform.

Research Experience

Jun 2023 - University of Oxford, Department of Computer Science,

Oct 2023 Working on cardiac anatomy generation with Latent Diffusion Models in Prof. Bueno-Orovio's research group.

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,

Poster abstract submitted.

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 "DwuMlan",
- 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