Adam Izdebski

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Education

PhD Candidate in Computer Science   October 2021 - October 2025

University of Warsaw
- Generative Modeling, Representation Learning, Molecule Generation, De novo Drug Design
- Supervisor: Ewa Szczurek

Logic Year   September 2019 - August 2020

University of Amsterdam - Institute for Logic, Language and Computation
- Machine Learning Theory, Quantum Machine Learning

M.Sc. in Mathematics   October 2017 - October 2019

University of Warsaw
- Machine Learning, Explainable Artificial Intelligence
- Top 7 in a national competition for the best master's thesis in Machine Learning

Research Experience

Northwestern University, Feinberg School of Medicine: Visiting Researcher   September 2023 - December 2023

Eindhoven University of Technology: Visiting Researcher   February 2023 - June 2023
- Applied generative modeling (VAEs, EBMs, ARMs) to molecule generation and drug design
- Supervisor: Jakub Tomczak

Pacmed: Research Intern in **Causal Inference**   August 2020 - April 2021
- Worked on representation learning for causal inference applied to EHR data
- Supervisor: Giovanni Cinà

University of Amsterdam: Research Project in **Quantum Machine Learning**   March 2020 - August 2020
- Improved a quantum boosting algorithms based on insights from machine learning theory
- Supervisor: Ronald de Wolf

MI2 Data Lab: **R developer** - Intern   June 2019 - September 2019
- Implemented Explainable Artificial Intelligence methods
- Supervisor: Przemysław Biecek

Publications

- Izdebski, A. et al.. De novo drug design with Joint Transformers, *in preparation*, 2023
- Koras, K. et al.. A generative recommender system with GMM prior for cancer drug generation and sensitivity prediction, Machine Learning in Computational Biology, 2023
- Izdebski, A. et al. A pragmatic approach to estimating average treatment effects from EHR data: the effect of prone positioning on mechanically ventilated COVID-19 patients, *Preprint*, arXiv:2109.06707, 2021.
- Izdebski, A. and de Wolf, R. Improved Quantum Boosting. *LIPIcs, Volume 274, ESA 2023*.