

VADIM LIVENTSEV

Machine Learning Scientist/Engineer

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📍 's-Hertogenbosch, the Netherlands

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ACADEMIC EXPERIENCE

PhD in Deep Program Induction for Personal Health
Eindhoven University of Technology (TU/e)

📅 2019 - Feb 2024

MSc in Data Science (thesis on Biomed NLP)
Skolkovo Institute of Science and Technology (Skoltech)

📅 2017 - 2019

Bachelor of Software Engineering
Higher School of Economics (HSE)

📅 2013 - 2017

Concentration in Programming
Lyceum of Information Technologies (LIT)

📅 2009 - 2013

INDUSTRIAL EXPERIENCE

Researcher

Philips Research

📅 2019 - Feb 2024

📍 Eindhoven, Netherlands

Reinforcement learning environments for healthcare agents

Contractor

Red Kangaroo

📅 2019

📍 remote

Clinical data exchange for 21st century

Associate Scientist

Philips Innovation Labs RUS

📅 2018 - 2019

📍 Moscow, Russia

Named entity recognition for information extraction from clinical text.

Chief Technology Officer

BotEngine

📅 2017

📍 Moscow, Russia

A platform for development and deployment of chatbots.

PUBLICATIONS

See vadim.me/publications

RESEARCH INTERESTS

program synthesis, reinforcement learning, foundation models, artificial humour, prediction markets, artificial general intelligence

PROGRAMMING

C, C++, C#, Java, Clojure, JavaScript, Python
(usually torch + stable baselines)

TEACHING

- Course author and instructor @ *Functional Programming with Clojure*. Skoltech 2018, 2019.
- Course author and instructor @ *Introduction to Artificial Humour*. Skoltech 2019.
- Course instructor, mentor @ *Machine Learning, Computer Vision, Project Management*. Netology 2019-2021.
- Mentor @ *Neurohackathon 2018*. Medical image segmentation for Multiple Sclerosis.
- Organiser, producer @ *Eindhoven Reinforcement Learning Seminar* Jun 2021 - present

SUCCESSES

- Worked in deep learning for program synthesis before Large Language Models were a thing.
- Did a rigorous study¹ of the optimal amount of sleep to have at a hackathon
- Condensed most of Reinforcement Learning into a 1 hour explainer²
- Still haven't found an adequate replacement for my tiny Deep Learning libraries: equibatch and evestop
- Core author of the most popular paper of GECCO 2023, Fully Autonomous Programming with Large Language Models.
- Made the training dataset for foundation models in Healthcare

FAILURES

- Copied and pasted `sudo rm -rf /` into the terminal on a university cluster with intention to type stuff after `/`, but a carriage return made it into the buffer.
- Managed to spend 4000 EUR on downloading 3GB of data from Google Cloud³

¹The Promise and Perils of Sleeping at Hackathons

²Deceptive Diversity of Modern RL Methods youtu.be/sKBREGKc6o

³Post mortem. How I was charged 4000 EUR for downloading 3.5 GB of data from Google Cloud