

Foma Shipilov

foma@shipilov.ru · @foma2u

Moscow, Russia



EXPERIENCE

- HSE University
Intern-researcher @ LAMBDA
– Deep learning applications for online filtering and reconstruction of aerogel detectors;
What Machine Learning Can Do for Focusing Aerogel Detectors, Physics of Atomic Nuclei 86, 864 (2023)
Machine Learning for FARICH Reconstruction at NICA SPD, MSU Physics Bulletin 79 S2, 906 (2024)
November 2021 onwards
- HSE University
Lecturer @ Deep Learning 1
Course Instructor @ Deep Learning 1
Teaching Assistant @ Faculty of Computer Science
2024 onwards, 2023 onwards, 2020 – 2024
- Sber
Manager @ Anti-Fraud Department
– Developed an anti-fraud AI solution (joint with HSE)
August 2024 – December 2024
- Sber
Intern @ Sber AI Lab
– Applied Temporal Point Process models to MIMIC-IV medical dataset.
March 2024 – August 2024
- Huawei
Assistant Engineer @ Noah's Ark lab
– Remastered TV-series using GANs;
– Developed non-linear CNN degradation model for super-resolution of real-world images.
November 2020 – September 2021

EDUCATION

- MSc Data Science (Studied in English)
HSE University, Skoltech (MML joint programme)
Currently undergoing
- MSc + PhD Track, Computer Science
HSE University
Currently undergoing
- BS Computer Science
HSE University
2023, Academic Honors Diploma

SKILLS

- ML & Data Analysis
– Computer vision, super-resolution, GANs, diffusion models, RNNs, transformers, deep learning for audio, deep Bayesian learning, mode connectivity
– PyTorch, scikit-learn, OpenCV, NumPy, JAX, Polars, PySpark, Hadoop, Vowpal Wabbit
- Languages & Frameworks
Python, C, C++, C#, Haskell, x86/ARM Assembly, HTML/CSS, ReactJS, Lua
- CI/CD & Other
Docker, WandB, Hydra, GitHub Actions, QuickCheck, GDB, Arch Linux, Shell, ZFS

AWARDS & RECOGNITION

- Yandex Scholarship
HSE University
2022
- Vysshaya Liga, Math & Informatics
HSE University
Degree I & III Diploma
2021, 2022
- Ya Professional, Math Olympiad
Yandex
Prize-winner
2021, 2022

PROJECTS

- HiFi-GAN [github.com]
Implementation of HiFi-GAN NeurIPS 2020 paper
PyTorch
- secHNet [github.com]
PyTorch in Haskell from scratch
Haskell, C

HOBBIES & INTERESTS



Alpine
skiing



Hypercubing



Homelab



Custom
keyboards