

Foma Shipilov

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Moscow, Russia



EXPERIENCE

- **HSE University**

Intern-researcher @ LAMBDA

– Deep learning applications for online filtering and re-construction 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” accepted in MSU Physics Bulletin (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

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



Music
production



Hypercubing



Custom
keyboards