

Foma Shipilov

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Moscow, Russia



EXPERIENCE

- **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

- **HSE University**

Intern-researcher @ Institute of Artificial Intelligence (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)

November 2021 onwards

- **HSE University**

Teaching Assistant @ Faculty of Computer Science

Teaching Instructor @ Deep Learning 1

2020 – 2024, September 2023 onwards

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

PROJECTS

- **HiFi-GAN** [github.com]

Implementation of HiFi-GAN NeurIPS 2020 paper

PyTorch

- **secHNet** [github.com]

PyTorch in Haskell from scratch

Haskell, C

SKILLS

- **ML & Data Analysis**

- Computer vision, super-resolution, GANs, diffusion models, LLMs, deep learning for audio, deep Bayesian learning, mode connectivity & permutation invariance
- PyTorch, scikit-learn, OpenCV, NumPy, JAX, PySpark, Hadoop, Vowpal Wabbit

- **Languages**

Python, C, C++, C#, Haskell, x86/ARM Assembly, HTML/CSS, ReactJS, Lua

- **CI/CD & Other**

Docker, WandB, GitHub Actions, QuickCheck, GDB, Arch Linux, Shell

AWARDS & RECOGNITION

- **Yandex Scholarship**

HSE University

Laureate

2022

- **Vysshaya Liga, Math & Informatics**

HSE University

Degree I & III Diploma

2021, 2022

- **Ya Professional, Math Olympiad**

Yandex

Prize-winner

2021, 2022

- **Phystech, Math & Physics Olympiads**

Moscow Institute of Physics and Technology

Winner

2019

HOBBIES & INTERESTS



Alpine
skiing



Music
production



Hypercubing



Custom
keyboards