

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 FARICH detector;
“What Machine Learning Can Do for Focusing Aerogel Detectors” accepted for publication in Nucl. Phys., vol. 86, no. 5 (2023)
November 2021 onwards
- **HSE University**
Teaching Assistant @ Faculty of Computer Science
Teaching Instructor @ Deep Learning 1
2020 – 2023, September 2023 onwards

EDUCATION

- **MSc Data Science (Studied in English)**
HSE University, Skoltech
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
- **Visual Turing** [github.com]
Turing machine IDE in C++

SKILLS

- **ML & Data Analysis**
– Computer vision, super-resolution, GANs, diffusion models, transformers, deep learning for audio, deep Bayesian learning, mode connectivity & permutation invariance
– PyTorch, scikit-learn, NumPy, SciPy, JAX, PySpark, Hadoop, Vowpal Wabbit
- **Languages**
Python, C, C++, C#, Haskell, x86/ARM Assembly, Java/Android, HTML5/CSS, JavaScript, Lua
- **CI/CD & Other**
Docker, WandB, GitHub Actions, QuickCheck, GDB, GNU/Linux, fish

AWARDS & RECOGNITION

- **“Vysshaya Liga” Math & Informatics**
Higher School of Economics
Degree I & III Diploma
2021, 2022
- **“Ya Professional” Math Olympiad**
Yandex
Prize-winner
2021, 2022
- **“Pokori Vorob'yovi Gori” Math Olympiad**
Moscow State University
Winner
2019
- **“Phystech” Math & Physics Olympiads**
Moscow Institute of Physics and Technology
Winner
2019

HOBBIES & INTERESTS



Animation



Making
music



Physics



Bayesian
Statistics