

Foma Shipilov

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Moscow, Russia



EXPERIENCE

- **Huawei**
Assistant Engineer – Noah’s Ark lab
– Remastered TV-series under “Low-quality movies enhancement using Generative Adversarial Networks” project;
– Developed non-linear convolutional degradation model for super-resolution of real-world images.
November 2020 – September 2021
- **Higher School of Economics**
Intern-researcher – Laboratory of Methods for Big Data Analysis (LAMBDA)
– Publishing papers on deep learning applications for online filtering and reconstruction of FARICH detector.
November 2021 onwards

EDUCATION

- **B.S. Computer Science**
Higher School of Economics
Currently undergoing
- **Physics & Tech class**
Moscow Institute of Physics and Technology, Kurchatov Institute
2019
- **Zaochnaya Fiziko-Tekhnicheskaya Shkola**
Moscow Institute of Physics and Technology
2019

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