

# Foma Shipilov

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Moscow, Russia



## EXPERIENCE

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- 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

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- 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

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- 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

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- 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

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

## HOBBIES & INTERESTS

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Alpine  
skiing



Hypercubing



Homelab



Custom  
keyboards