

Nikita Morozov

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Research Interests

Generative Modeling, Sampling, Reinforcement Learning, Probabilistic Inference, AI4Science

Education

HSE University

PhD programme in Computer Science, supervisor: Dmitry Vetrov

November 2024 – Present

Moscow, Russia

HSE University

Master's programme 'Math of Machine Learning', GPA: 9.66/10

September 2022 – July 2024

Moscow, Russia

HSE University

Bachelor's programme 'Applied Mathematics and Information Science', GPA: 9.65/10

September 2018 – July 2022

Moscow, Russia

Work Experience

HSE University, Centre of Deep Learning and Bayesian Methods

January 2025 – Present

Junior Research Fellow

Moscow, Russia

- Topic: Reinforcement learning algorithms for sampling, supervisor: [Dmitry Vetrov](#)

HSE University, Centre of Deep Learning and Bayesian Methods

December 2021 – December 2024

Research Assistant

Moscow, Russia

- Topic: Generative Flow Networks (GFlowNets), supervisor: [Dmitry Vetrov](#)
- Topic: Novel view synthesis and text-to-3D, supervisor: [Kirill Struminsky](#)

EPFL MLBIO

June 2024 – September 2024

Research Intern

Lausanne, Switzerland

- Topic: Geometric diffusion models for single-cell data, supervisor: [Maria Brbic](#)

FusionBrain

May 2023 – July 2023

Research Intern

Moscow, Russia

- Topic: Applying GFlowNet methods to speed up diffusion models, supervisor: [Aibek Alanov](#)

Yandex

July 2019 – November 2019

Software Engineer Intern

Moscow, Russia

- Refining C++ API of distributed computing platform [YTsaurus](#)
- Optimization of internal data exchange format parsers and writers

Teaching

HSE University

September 2022 – Present

Teaching Fellow

Moscow, Russia

- Courses: Machine Learning, Deep Learning, Probability Theory

HSE University

September 2019 – June 2022

Teaching Assistant

Moscow, Russia

- Courses: Machine Learning, Algebra, Algorithms and Data Structures

Awards

Ilya Segalovich Scholarship

HSE University & Yandex scholarship for outstanding achievements in study and research

2021, 2023, 2025

HSE FCS Scholarship for Scientific Contributions

Awarded for the paper "Generative Flow Networks as Entropy-Regularized RL"

2024

International Collegiate Programming Contest (ICPC)

21/276 place in Northern Eurasia Finals, advanced to World Finals

2023/2024

International Collegiate Programming Contest (ICPC)

42/281 place in Northern Eurasia Finals

2022/2023

HSE Student Research Paper Competition

Awardee in computer science category

2022

Publications

gfnx: Fast and Scalable Library for Generative Flow Networks in JAX

Daniil Tiapkin, Artem Agarkov, **Nikita Morozov**, Ian Maksimov, Askar Tsyganov, Timofei Gritsaev, Sergey Samsonov

Preprint 2025

Adaptive Destruction Processes for Diffusion Samplers

Timofei Gritsaev, **Nikita Morozov**, Kirill Tamogashev, Daniil Tiapkin, Sergey Samsonov, Alexey Naumov, Dmitry Vetrov, Nikolay Malkin

NeurIPS 2025 Workshop on Frontiers in Probabilistic Inference (*Oral*)

Revisiting Non-Acyclic GFlowNets in Discrete Environments

Nikita Morozov*, Ian Maksimov*, Daniil Tiapkin, Sergey Samsonov

ICML 2025

Tissue Reassembly with Generative AI

Tingyang Yu, Chanakya Ekbote, **Nikita Morozov**, Jiashuo Fan, Pascal Frossard, Stéphane d'Ascoli, Maria Brbić

ICML 2025 Workshop on Generative AI and Biology (*Spotlight*)

Optimizing Backward Policies in GFlowNets via Trajectory Likelihood Maximization

Timofei Gritsaev, **Nikita Morozov**, Sergey Samsonov, Daniil Tiapkin

ICLR 2025

Improving GFlowNets with Monte Carlo Tree Search

Nikita Morozov, Daniil Tiapkin, Sergey Samsonov, Alexey Naumov, Dmitry Vetrov

ICML 2024 Workshop on Structured Probabilistic Inference & Generative Modeling

Generative Flow Networks as Entropy-Regularized RL

Daniil Tiapkin*, **Nikita Morozov***, Alexey Naumov, Dmitry Vetrov

AISTATS 2024 (*Oral*)

Differentiable Rendering with Reparameterized Volume Sampling

Nikita Morozov, Denis Rakitin, Oleg Desheulin, Dmitry Vetrov, Kirill Struminsky

AISTATS 2024, Short version of this paper appeared in ICLR 2023 Workshop on Neural Fields

Weight Averaging Improves Knowledge Distillation under Domain Shift

Valeriy Berezovskiy, **Nikita Morozov**

ICCV 2023 Workshop on Out-of-Distribution Generalization in Computer Vision

* — equal contribution.

Reviewing

ICLR 2025 (3 papers), NeurIPS 2025 (5 papers, Top Reviewer), ICLR 2026 (5 papers)

Skills

Programming Languages: Python, C++, C

Deep Learning Frameworks: PyTorch, JAX

Other Programming: Git, Unix, Spark, CUDA (basic knowledge)

Languages

English: C1, **Russian:** Native, **French:** A1