

Nikita Morozov

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Research Interests

Generative Modeling, Sampling, Reinforcement Learning, Probabilistic Inference, AI for Scientific Discovery

Education

HSE University <i>PhD programme in Computer Science, supervisor: Dmitry Vetrov</i>	November 2024 – Present <i>Moscow, Russia</i>
HSE University <i>Master's programme 'Math of Machine Learning', GPA: 9.66/10</i>	September 2022 – July 2024 <i>Moscow, Russia</i>
HSE University <i>Bachelor's programme 'Applied Mathematics and Information Science', GPA: 9.65/10</i>	September 2018 – July 2022 <i>Moscow, Russia</i>

Work Experience

HSE University, Centre of Deep Learning and Bayesian Methods <i>Junior Research Fellow</i> <ul style="list-style-type: none">• Topic: Reinforcement learning algorithms for sampling, supervisor: Dmitry Vetrov	January 2025 – Present <i>Moscow, Russia</i>
HSE University, Centre of Deep Learning and Bayesian Methods <i>Research Assistant</i> <ul style="list-style-type: none">• Topic: Generative Flow Networks (GFlowNets), supervisor: Dmitry Vetrov• Topic: Novel view synthesis and text-to-3D, supervisor: Kirill Struminsky	December 2021 – December 2024 <i>Moscow, Russia</i>
EPFL MLBIO <i>Research Intern</i> <ul style="list-style-type: none">• Topic: Geometric diffusion models for single-cell data, supervisor: Maria Brbic	June 2024 – September 2024 <i>Lausanne, Switzerland</i>
FusionBrain <i>Research Intern</i> <ul style="list-style-type: none">• Topic: Applying GFlowNet methods to speed up diffusion models, supervisor: Aibek Alanov	May 2023 – July 2023 <i>Moscow, Russia</i>
Yandex <i>Software Engineer Intern</i> <ul style="list-style-type: none">• Refining C++ API of distributed computing platform YTsauros• Optimization of internal data exchange format parsers and writers	July 2019 – November 2019 <i>Moscow, Russia</i>

Teaching

HSE University <i>Teaching Fellow</i> <ul style="list-style-type: none">• Courses: Machine Learning, Deep Learning, Probability Theory	September 2022 – Present <i>Moscow, Russia</i>
HSE University <i>Teaching Assistant</i> <ul style="list-style-type: none">• Courses: Machine Learning, Algebra, Algorithms and Data Structures	September 2019 – June 2022 <i>Moscow, Russia</i>

Awards

Ilya Segalovich Scholarship <i>HSE University & Yandex scholarship for outstanding achievements in study and research</i>	2021, 2023, 2025
HSE FCS Scholarship for Scientific Contributions <i>Awarded for the paper "Generative Flow Networks as Entropy-Regularized RL"</i>	2024
International Collegiate Programming Contest (ICPC) <i>21/276 place in Northern Eurasia Finals, advanced to World Finals</i>	2023/2024
International Collegiate Programming Contest (ICPC) <i>42/281 place in Northern Eurasia Finals</i>	2022/2023
HSE Student Research Paper Competition <i>Awardee in computer science category</i>	2022

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