

# Nikita Morozov

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## Research Interests

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

## Education

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

## Work Experience

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

## Teaching

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

## Awards

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

**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**<sup>\*</sup>, Ian Maksimov<sup>\*</sup>, 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<sup>\*</sup>, **Nikita Morozov**<sup>\*</sup>, 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

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

Skills

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**Programming Languages:** Python, C++, C  
**Deep Learning Frameworks:** PyTorch, JAX  
**Other Programming:** Git, Unix, Spark, CUDA (basic knowledge)

Languages

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