

# Nikita Morozov

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## Research Interests

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Deep Learning, Probabilistic Modeling, Generative Modeling, Reinforcement Learning, AI for Science

## 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>Research Assistant</i> <ul style="list-style-type: none"><li>Current topic: Generative Flow Networks (GFlowNets), supervisor: <a href="#">Dmitry Vetrov</a></li><li>Previous topic: Novel view synthesis and text-to-3D, supervisor: <a href="#">Kirill Struminsky</a></li></ul>	December 2021 – Present <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>AIRI</b> <i>Research Intern</i> <ul style="list-style-type: none"><li>Topic: Applying GFlowNet techniques to 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

[Adaptive Destruction Processes for Diffusion Samplers](#)

Timofei Gritsaev, **Nikita Morozov**, Kirill Tamogashev, Daniil Tiapkin, Sergey Samsonov, Alexey Naumov, Dmitry Vetrov, Nikolay Malkin  
Preprint 2025

[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  
Preprint 2025

[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*

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**ICLR 2025 (3 papers), NeurIPS 2025 (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