# Nikita Morozov

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## Research Interests

Deep Learning, Probabilistic Modeling, Generative Modeling, Sampling, Reinforcement Learning

## Education

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|---|---|
| **HSE University** | September 2022 – (expected) July 2024 |
| *Master's programme 'Math of Machine Learning', current GPA: 9.50/10* | *Moscow, Russia* |
| **HSE University** | September 2018 – July 2022 |
| *Bachelor's programme 'Applied Mathematics and Information Science', GPA: 9.65/10* | *Moscow, Russia* |

## Experience

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|---|---|
| **HSE University, Centre of Deep Learning and Bayesian Methods** | November 2021 – Present |
| *Research Assistant* | *Moscow, Russia* |

- Topic: Generative Flow Networks (GFlowNets), supervisor: Dmitry Vetrov

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| **HSE University** | September 2022 – Present |
| *Teaching Fellow* | *Moscow, Russia* |

- Courses: Machine Learning, Introduction to Deep Learning

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| **AIRI** | May 2023 – July 2023 |
| *Research Intern* | *Moscow, Russia* |

- Research with Aibek Alanov on applying GFlowNet techniques to diffusion models

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| **HSE University** | September 2019 – June 2022 |
| *Teaching Assistant* | *Moscow, Russia* |

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

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| **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

## Publications

**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 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

## Awards

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| **International Collegiate Programming Contest (ICPC)** | |
| *21/276 place in Northern Eurasia Finals, advanced to World Finals* | *2024* |
| **Ilya Segalovich Scholarship** | |
| *HSE University & Yandex scholarship for outstanding achievements in study and research* | *2021, 2023* |
| **HSE Student Research Paper Competition** | |
| *Awardee in computer science category* | *2022* |

## 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