Nikita Morozov

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Research Interests

Deep Learning, Probabilistic Modeling, Generative Modeling, Reinforcement Learning

Education

HSE University September 2022 – (expected) July 2024
Master's programme 'Math of Machine Learning', current GPA: 9.58/10 Moscow, Russia

HSE University September 2018 – July 2022
Bachelor's programme 'Applied Mathematics and Information Science', GPA: 9.65/10 Moscow, Russia

Experience

HSE University, Centre of Deep Learning and Bayesian Methods November 2021 – Present
Research Assistant Moscow, Russia
- Topic: Generative Flow Networks (GFlowNets), supervisor: Dmitry Vetrov

HSE University September 2022 – Present
Teaching Fellow Moscow, Russia
- Courses: Machine Learning, Introduction to Deep Learning

AIRI May 2023 – July 2023
Research Intern Moscow, Russia
- Research with Aibek Alanov on applying GFlowNet techniques to diffusion models

HSE University September 2019 – June 2022
Teaching Assistant Moscow, Russia
- Courses: Machine Learning, Algebra, Algorithms and Data Structures

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 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

Awards

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