

Nikita Kiselev

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Data Scientist, Optimization Researcher

WORK EXPERIENCE

Sber AI

Middle Data Scientist Jan 2025 – Present

Kandinsky 4.1 (text-to-video, image-to-video):

- Text-to-video LoRA fine-tuning for 70+ characters from Russian culture code, distilled them into one model
- Developed and trained a new image-to-video model maintaining structural dynamics

Research Intern Jun 2024 – Dec 2024

Kandinsky Image Editing:

- Interior Design with Kandinsky 3 ControlNet for Domclick
- Kandinsky 3 ControlNet Style (DepthPro) that outperforms ControlNet Union SDXL by 100% on ImageReward

Research Center for Artificial Intelligence, Innopolis University

Mathematician-programmer Sep 2024 – Present

Laboratory of Mathematical Methods of Optimization, MIPT

Technician Oct 2023 – Apr 2024

FEATURED PUBLICATIONS

1. D. Yarmoshik, A. Rogozin, N. Kiselev, D. Dorin, A. Gasnikov, D. Kovalev. Decentralized Optimization with Coupled Constraints. // **ICLR 2025, A***
2. D. Dorin, N. Kiselev, A. Grabovoy, V. Strijov. Forecasting fMRI Images From Video Sequences: Linear Model Analysis. // Health Information Science and Systems, **Q1**
3. N. Kiselev, A. Grabovoy. Unraveling the Hessian: A Key to Smooth Convergence in Loss Function Landscapes. // Doklady Mathematics, **Q2**

FEATURED TALKS

- April 6, 2024. Determining a sufficient sample size based on the a posteriori distribution of model parameters. // 66th MIPT All-Russian Scientific Conference.

FEATURED ACHIEVEMENTS

- K.V. Rudakov scientific academic scholarship for research activities in the field of applied mathematics:
 - Spring 2024 – 2025, Fall 2024 – 2025, Fall 2023 – 2024
- Personal scholarship for contributions to the development of numerical optimization methods:
 - 2023 – 2024, 2024 – 2025
- Abramov scholarship for 1-3 year bachelor students with the best grades at MIPT:
 - 2020 – 2023

SUMMARY

Aspiring researcher (2+ years of research experience) in the field of machine learning and optimization. Focused on generative diffusion and multimodal models. Motivated for productive work and learning. Having a substantial theoretical foundation and mathematical background.

SKILLS

- DL:** PyTorch, Huggingface, Accelerate, Multi GPU training: DDP/FSDP/SP/TP, W&B, TensorBoard
- ML:** NumPy, SciPy, Pandas, NetworkX, Scikit-learn, LightGBM, CatBoost
- OS:** macOS, Linux, Windows
- Misc.:** Git, Bash, \LaTeX
- Soft:** responsible, organized, critical thinker, flexible, communicative, team player, patient

EDUCATION

MIPT **Moscow, Russia**

MSc in Computer Science

Sep 2024 – Present

MIPT **Moscow, Russia**

BSc in Applied Mathematics and Physics

Sep 2020 – Aug 2024

- Thesis: Bayesian Sample Size Estimation
- Advisor: Andrey Grabovoy, PhD
- GPA: 4.88/5 (with honours)

LANGUAGES

- Russian (Native)
- English (Advanced)

INTERESTS

- Gym
- Guitar