

Timur Kharisov

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Residence: Paris, France
Date of birth: March 26, 2002
Citizenship: Russian Federation

EDUCATION

- Paris-Saclay University - Graduate School of Mathematics** 🌐 Orsay, France
M2 (M.Sc.) in Optimisation at the Mathematics and Applications program, GPA: **exp. 16-17/20** Sep 2024–Sep 2025
- Yandex School of Data Analysis** 🌐 Remote
AI online program (non-degree) comprising *Master's in Data Science* courses. Sep 2022–May 2026
- Moscow Institute of Physics and Technology** 🌐 #1 technical school in Russia Moscow, Russia
B.S. in Computer Science and Applied Mathematics, GPA: **9.11/10** (4.91/5.0), [transcript](#) Sep 2020–Jun 2024
Thesis: “Optimization of Communication Overhead in Federated Learning for Machine Learning Models”
supervised by Prof. Peter Richtárik (final score by the committee: **10/10**).

EXPERIENCE

- Research Intern (M2 stage)** Palaiseau (Île-de-France), France
CREST (Center for Research in Economics and Statistics) May 2025–Sep 2025
– Working on the data markets project in the [Fairplay team](#), supervised by [Patrick Loiseau](#) and [Nicolas Gast](#).
- Visiting Student Researcher** Thuwal, Saudi Arabia
King Abdullah University of Science and Technology Oct 2023–Mar 2024
– Working in the Optimisation and Machine Learning Research Group supervised by [Peter Richtarik](#).
– Projects on Federated Learning Optimisation resulted in an oral presentation at [FL@FM NeurIPS 2024](#).
– Skills acquired: *Theoretical and Experimental research in Federated Learning, Optimisation, and Machine Learning*.
- Quantitative Research Intern** Yerevan, Armenia
WorldQuant LLC Jul 2023–Sep 2023
– Spearheaded a project focused on enhancing the speed and performance of a trading algorithm.
– Skills acquired: *Applications of Optimisation and Linear Algebra, C++ Development, Quantitative Finance*.
- Machine Learning Engineering Intern** Moscow, Russia
Yandex LLC Jul 2022–Oct 2022
– Improved the *End-to-end Alice* virtual assistant search app quality by **0.4%** through optimizations in the ML models training pipeline. Contributed to the development of Alice for the new Yandex Station Duo Max device.
– Skills acquired: *Applications of NLP and Machine Learning, Experimental Research, Python and C++ Development*.

ACHIEVEMENTS AND SCHOLARSHIPS

- Excellence Undergraduate and Graduate Scholarships** Jan 2021–Jun 2025
Sophie Germain Master Scholarship (2024-2025) - *Highly competitive scholarship for top students in Mathematics.*
Academic Track of Tinkoff Scholarship (2023-2024) -
Scholarship awarded for students demonstrating outstanding academic performance. (top 200 of 13000 applicants)
Government Academic Excellence Scholarship (2023-2024) - *“Exceptional achievements in research work”.*
Abramov Scholarship for Academic Excellence (2021-2023) - *Top 5% students of MIPT university.*
- Data Engineering “Hack & Change” Hackathon** - *Absolute Winner (top 1 of 60 teams)* Nov 2021
Led team of 5 people for implementing efficient Mobile Services users data aggregation application.
- Final of All-Russian National Olympiad in Mathematics** Apr 2020
Most prestigious national competition in Mathematics. - Prize Winner (top 100 of 40000 participants)

SKILLS

- Problem Solving:** Competitive (Olympiad) Mathematics, Competitive Programming.
- Mathematics:** Advanced Linear Algebra, Advanced Calculus, Probability Theory, Differential Equations, Stochastic Analysis, Statistics, Optimization, Game Theory, Discrete Mathematics, Learning Theory (ML), Complexity Theory.
- Software Engineering:** C++, Python, C, ASM, MapReduce, Databases (SQL, Apache Spark/Hive, Redis), PyTorch/JAX/HuggingFace, Docker, Linux, Git, CI&CD, Software Design Patterns, Algorithms and Data Structures.
- Research Skills:** L^AT_EX, Experiment Setup, Research Paper Writing, Literature Review, Conference Submission.
- Languages:** English (C1, [IELTS Academic Band 8](#), [Public Speaking](#)), Russian (Native), French (A1)