Timur Kharisov

Email: tkharisov7@gmail.com
Phone number: +33-768776971
Website: kharisov.me
LinkedIn: @tkharisov7
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 2025
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:** LaTeX, Experiment Setup, Research Paper Writing, Literature Review, Conference Submission.

- **Languages:** English (C1, IELTS Academic Band 8, Public Speaking), Russian (Native), French (A1)