

MARINA ROMANOVA

☎ +31 6 25 59 25 62 ✉ marinar14112003@gmail.com 🌐 [Rin4797](#)

EDUCATION

National Research University Higher School of Economics **2021 — Expected 2025**
Faculty of Computer Science, Applied Mathematics and Information Science *Moscow, Russia*

Yandex School of Data Analysis **2023 — Expected 2025**
Specialisation of Data Science *Moscow, Russia*

Independent University of Moscow **2021**
Took advanced Geometry, Calculus, and Algebra courses *Moscow, Russia*

PROJECTS

Image Filters [↗](#) | [C++](#), [CMake](#), [GTest](#) **March 2022**

- Implemented CLI app for applying filters to images (like a blur, greyscale, sharpening, and crystallizing)
- Used complex class inheritance structure for better scaling and adaptation to different image formats
- Used Catch2 for unit testing and CMake as a build system

Exam Organizer [↗](#) | [Python](#), [Django](#), [HTML](#) **November 2022**

- Website with attached database for organization of preparing and further sharing of the exam materials
- Used Django framework, SQLite3 as database, HTML for web interface

Vector [↗](#) | [C++](#) **February 2022**

- Implemented C++ STL vector container with dynamic memory allocation
- Implemented iterators to provide range-based support

WORK EXPERIENCE

Huawei Russian Research Institute **July — September 2022**
Internship *Moscow, Russia*

- Implemented numerical optimization methods based on Gradient Descent (BFGS, Powell's Dog Leg, Trust Region) and other methods (Nelder-Mead) myself and compared their performance
- Developed and optimized the mobile phone signal conversion model
- Used NumPy and SQNomad library for building model
- Improved original NMSE of signal conversion model by 50%

Online MIPT School **September 2021 — Present**
Teacher *Moscow, Russia*

- Gave Olympiad Maths lectures for a group of 15 middle school students
- Developed tasks and checked weekly assignments
- 5 out of 15 students became prizewinners winners of the regional stage of the National Olympiad in Math (top 5 in their region)

ACHIEVEMENTS

Russian Olympiad in Mathematics **2021, 2019, 2018**
Top 50 (2021, 2019), top 70 (2018) out of over 200 000 participants

Russian Olympiad in Economics **2021, 2019**
Winner – top 70 (2021), top 25 (2019) out of over 100 000 participants

Russian Olympiad in Physics **2021, 2019**
Winner – top 25 (2019), Participant – top 70 (2021) out of over 100 000 participants