Maria Okorochkova

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EDUCATION

- **Bachelor of Science in Applied Mathematics and Computer Science**
  *National Research **ITMO** University* — *Sep. 2021 - Present*
  Relevant coursework: Calculus, Algorithms and Data Structures, Discrete Mathematics, Java, C, C++

- **Bachelor of Science in Information Systems and Technologies**
  *National Research **ITMO** University* — *Sep. 2020 - Aug. 2021*
  Relevant coursework: Algorithms and Data Structures, Discrete Mathematics, C, C++

- **Student**
  *Correspondence School of Physics and Technology of **MIPT*** — *Sep. 2018 - Jun. 2020*
  Relevant coursework: Mathematics, Informatics

SELECTED PROJECTS

- **TAPE TYPE DATA SORTER** — *Feb. 2023*
  `C++` `OOP` `Iterator` `Memory work`

  Tape (data structure) development and implementation of Tape Sorter.

- **IMPLEMENTATION OF CODEFORCES'S CLONE** — *Dec. 2022*
  `Java` `JavaScript` `Vue.js` `REST` `Spring`

  Development of a web app similar to Codeforces with basic features:
  registration, identification, writing comments, publishing posts, storing data of each user.

- **ARITHMETIC PARSER** — *May 2022*
  `Java` `OOP` `Parsing`

  Parsing and calculation of arithmetic expressions.

- **PNG TO PNM CONVERTER** — *Apr. 2022*
  `C` `ZLIB` `LIBDEFLATE` `Decoding`

  Decoding a PNG image into PNM for ZLIB or LIBDEFLATE.

- **RUBIK'S CUBE GRAPHICAL USER INTERFACE** — *Jun. 2021*
  `C++` `OOP` `GLUT`

  Implementation of a program simulating the assembly of a 3x3 Rubik's Cube
  + using application GUI Implementation (OpenGL Utility Toolkit).

ACHIEVEMENTS

Prize-winner,	Mathematical Olympiad 'Phystech' held by MIPT (**2nd prize** among 2000+ finalist)	*2019 - 2020*
Winner,	Mathematical Olympiad held by Financial University (**top 25** among 580+ finalists)	*2019 - 2020*

PROGRAMMING SKILLS

Languages:	C++, Java.
Languages, familiar:	C, JavaScript, Clojure, Prolog, Verilog, Python.
Frameworks & Tools:	Bash, Git, Spring, Vue.js, SQL.
Technologies:	AJAX, REST.

TEACHING EXPERIENCE

- **Mentor**
  ITMO University, Information Technologies and Programming Faculty — *Sep. 2021 - Present*
  `Calculus` `Teaching`
  - Mentor of **Calculus** for first-year students.

LANGUAGES

English, Upper-Intermediate;
French, Intermediate.