Maria Okorochkova

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EDUCATION

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

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

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

SELECTED PROJECTS

- **File Archiver**   *Dec. 2020*
  `C` `ARC` `Huffman` `Data (De)Compression` `(Un)Packing files`

  Development of a program for archiving and unpacking several files into one archive. Data compression and decompression during archiving using the Huffman algorithm.

- **Rubik's Cube**   *Jun. 2021*
  `C++` `OOP` `GLUT` `Rubik 's Cube Algorithm`

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

- **Parser in Prolog**   *May 2022*
  `Prolog` `Definite Clause Grammar` `Parsing`

  Parsing and calculation of arithmetic expressions in Prolog using DC-grammars.

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 (familiar):	C, C++, Java.
Frameworks & Tools:	Git, Bash.

TEACHING EXPERIENCE

- **Mentor**
  ITMO University, Information Technologies and Programming Faculty   *Sep. 2021 - Present*
  `Math analysis` `Training` `Teaching`
  - Mentor of **Mathematical analysis** for first-year students.

LANGUAGES

English, Upper-Intermediate;
French, Intermediate.