Istomina Aleksandra

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Saint-Petersburg, Russia

EXPERIENCE

- **JetBrains Research**
  Internship
  Worked on improving existing algorithm for Context-Free Path Querying for planar graphs.
  September to December 2020

- **Sirius.Courses**
  Project
  Finding proxy metrics for educational courses
  February 2022-present

EDUCATION

- **Evening courses: Data Science, Computer Science**
  Computer Science Center
  2019-present

- **M.S. Math**
  Saint-Petersburg State University
  2021-present

- **B.S. Math, CGPA: 4.76/5, diploma with distinction**
  Saint-Petersburg State University
  2017-2021

- **School, CGPA: 5/5, gold medal**
  Physics and Mathematics Lyceum 30
  2012-2017

AWARDS & RECOGNITION

- **Code Jam to I/O for Women**
  Won, was in top 20
  2018

- **HSE olympiad for students**
  2nd degree diploma
  Track: Applied math. and computer science
  2021

SKILLS

- **Technologies**
  Python, Numpy, Pandas, PyTorch

- **Patterns & Practices**
  Object Oriented Programming, A/B testing

Research Interests

- Graph Theory, Complexity theory, ML, Algorithms and Data Structures

PROJECTS

- **M.S. Thesis**
  Fine-grained Reductions Around CFL reachability
  Latex, Python, Git

- **B.S. Thesis**
  On morphing tree drawings in 2D and 3D
  Latex, IPE, Git

OTHER HIGHLIGHTS

- Completed Python Specialization on *Coursera* from MIPT.

- Participated in conference *WALCOM 2022*. Paper *Morphing tree drawings in a small 3D grid*

LANGUAGES

- Russian: Mother-tongue

- English: Fluent

- French: Basic level