

# Fedor Kurmazov

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## EDUCATION

### Saint-Petersburg State University of Economics

- Master's degree in Applied Mathematics and Informatics 2020 – 2022
  - Majoring in mathematical and computer modeling in economics and management

- Bachelor's degree in Economics 2016 – 2020
  - Majoring in mathematical methods in economics

### Computer Science Center

- Majoring in computer science and software engineering 2019 – 2022

## WORK EXPERIENCE

- «Gazprom Neft», intern in business planning management department 2020
  - QlikView application development

## OTHER WORK EXPERIENCE

- Development of Wolfram Language package for solving Steiner tree problem in graphs: 2021
  - Dynamic programming (Dreyfus-Wagner)
  - Approximation algorithms (Kou-Markowsky-Berman, Mehlhorn)
  - Local-search algorithms (Vertex insertion, Vertex elimination, Key-path exchange)
- Network flow problems solving on European Gas Market infrastructure graph: 2019 – 2020
  - Study of the European gas market modern structure
  - Collection and processing of data on market operators
  - Building a graph of the European gas market infrastructure
  - Analysis of the significance of links between market operators
  - Finding robust, system-optimal gas flows
- Study and implementation of algorithms for solving the traveling salesman problem (TSP): 2018 – 2019
  - Integer programming (Dantzig, Miller)
  - Greedy algorithms (Nearest neighbour, Multi-fragment)
  - Stochastic algorithms (Ant Colony Optimization)
  - Local-search algorithms (k-opt, Lin-Kernighan)

## ACHIEVEMENTS

- «Higher League» – olympiad of students and graduates in applied mathematics and informatics 2021
  - Diploma of the II degree for individual competition
- 7-th North Countries Universities Mathematical Competition 2021
  - Diploma of the II degree for individual competition
- Regional Student Mathematical Olympiad of St. Petersburg 2019
  - Diploma of the I degree for individual and team competition
- 6-th North Countries Universities Mathematical Competition 2019
  - Diploma of the II degree for individual competition
- IX International Student Olympiad in Mathematics 2018
  - 1st place in the nomination “Economic Sciences, 3-5 courses and undergraduates”
- Superfinal of the Internet Olympiad in mathematics (Ariel, Israel) 2018
  - Diploma of the III degree for individual competition

## AWARDS

- Scholarship of the Bank “Viking” 2019
- Scholarship of the President of the Russian Federation 2019
- Scholarship of the Government of the Russian Federation 2018

## SKILLS & ABILITIES

- Wolfram Mathematica, Python (NumPy, Pandas, и пр.), Git, MS Excel, Haskell, Julia, QlikView, SQL,  $\text{\LaTeX}$ , Anylogic

## LANGUAGES

- English, Russian