

# Dmitriy Smorchkov

---

Moscow | +79858858460 | [smomitya@yandex.ru](mailto:smomitya@yandex.ru) | 18.12.1998

## School

- Have ended Ph.Math. Lyceum 239 in Saint-Petersburg. Had perfect grades on math, physics and IT. Also had many diplomas of Russian research and study school olimpiads. In 2015 became winner (and 2,3<sup>rd</sup> diplomas) of some universities' competitions for admission.

## University

### HIGHER SCHOOL OF ECONOMICS | MATH'S FACULTY | 2015-2019

- Specialization: math
- Students' olimpiads:
  1. "Я-профессионал", math, 2018, 2019 – winner;
  2. Siberian math competition, 2018 – gold medal.
  3. International math competition in Czech Republic – successful performance.
- Course papers:
  1. Abel Theorem;
  2. Combinatorics of the special process Rise&Peel;
  3. Extremal problems in Graph theory.
- Participant of Summer School "Modern mathematics".
- Summer school in Kaliningrad – Cryptography, 2019.
- Participant of "Абсолютное будущее" (МИПТ) 2018.
- Winter school "Math of machine learning", Sochi 2020.
- Diploma thesis: Hypergraph colorings.
- Red diploma, excellent grades.

### HSE & SKOLTECH | STATISTIC LEARNING THEORY | SINCE 2019

- Specialization: mathematics of Machine Learning
- GPA 10/10.

## Sport

- From childhood have been playing basketball. Now playing in Skoltech.

## Projects

- At 10<sup>th</sup> grade was interesting in physics and IT, so took part in study-programming project: "Modelling of wave spreading in different crystals".
- Project «Посланники науки» where I was a teacher for Moscow school students. Spent a couple of lessons on Combinatorics and improved their attitude to modern science.
- Checking olimpiad "Высшая проба" every year.

- In 2016-2018 – teacher of Olympiad math in schools 1368 and «Покровский квартал», managed by HSE.
- From second year in Uni – teaching assistant on Math faculty, CS faculty.
- Now teaching assistant of Discrete Math and Optimization, CS faculty.
- Head of Math Club in Skoltech: Preparation to Math competitions.
- Serious project connected with NLA: compression of Neural Networks

## **Internships**

- “Tinkoff” 2019 – Analyst
- “Skyeng” 2019 – Math teacher
- “Ozon Masters” – student

## **Research**

Current position of Junior Researcher in High Dimensional Inference Laboratory, HSE, Moscow. Reinforcement Learning projects.

## **Working experience**

During internships get known the basics of Data Science – Data preprocessing, statistical graphic al representation, building prediction models. Studying at Skoltech improved this knowledge.

## **INTERESTS | AWARDS | EXPECTED FUTURE**

- Combinatorics, Discrete math, Machine learning, Reinforcement Learning, MCMC algorithms.
- On the course of A. Raigorodsky Networks, I was analyzing part of social network, using Python and modern random graph theory.
- ML competitions in Skoltech, TOP 4.
- Innovation Workshop 2<sup>nd</sup> place, Best Prototype award.
- Made various talks and presentations on faculty (group theory, algebra, geometry).