

# curriculum vitae

Alexander Kozachinskiy

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address: Novoslobodskaya st., 62-2-433, Moscow, Russia

place and date of birth: 17.02.1993, Moscow, Russia

citizenship: Russia

## Education

2015-present

Phd student in Mathematics.  
Lomonosov Moscow State University.  
**Adviser:** [Nikolay Vereschagin](#).

2010-2015

Specialist in Mathematics, diploma with honors.  
Lomonosov Moscow State University.

## Employment

2016-present

Junior Research Fellow and Lecturer, [homepage](#)  
National Research University Higher School of Economics.  
Faculty of Computer Science.  
Laboratory of Theoretical Computer Science.

## Research interests

Theoretical computer science, including but not limited to: communication complexity, circuit complexity, information theory, finite automata and games, algorithms and data structures.

## Conference papers

- [1] Alexander Kozachinskiy and Alexander Shen. Two Characterizations of Finite-State Dimension. *Proceedings of the 22nd International Symposium on Fundamentals of Computation Theory (FCT 2019)*. Lecture Notes in Computer Science, vol. 11651, pp. 80-94, 2018.
- [2] Alexander Kozachinskiy. From Expanders to Hitting Distributions and Simulation Theorems. *Proceedings of the 43rd International Symposium on Mathematical Foundations of Computer Science (MFCS 2018)*. Leibniz International Proceedings in Informatics, vol. 117, pp. 4:1-4:15, 2018.
- [3] Egor Klenin and Alexander Kozachinskiy. One-Sided Error Communication Complexity of Gap Hamming Distance. *Proceedings of the 43rd International Symposium on Mathematical Foun-*

*dations of Computer Science (MFCS 2018)*. Leibniz International Proceedings in Informatics, vol. 117, pp. 7:1-7:15, 2018.

- [4] Alexander Kozachinskiy. Recognizing Read-Once Functions from Depth-Three Formulas. *Proceedings of the 13th International Computer Science Symposium in Russia (CSR 2018)*. Lecture Notes in Computer Science, vol. 10846, pp. 232-243, 2018. **Yandex best student paper award.**
- [5] Alexander Kozachinskiy. On Slepian – Wolf Theorem with Interaction. *Proceedings of the 11th International Computer Science Symposium in Russia (CSR 2016)*. Lecture Notes in Computer Science, vol. 9691, pp. 207-222, 2016. **Yandex best student paper award.**
- [6] Alexander Kozachinskiy. Making Randomness Public in Unbounded-Round Information Complexity. *Proceedings of the 10th International Computer Science Symposium in Russia (CSR 2015)*. Lecture Notes in Computer Science, vol. 9139, pp. 296-309, 2015.

## Journal papers

- [1] Alexander Kozachinskiy. Recognizing Read-Once Functions from Depth-Three Formulas. *Theory of Computing Systems*, in print.
- [2] Alexander Kozachinskiy. On Slepian – Wolf Theorem with Interaction. *Theory of Computing Systems*, 62(3), pp. 583-599, 2018.

## Teaching

2018, 2019	Mathematical logic and computational complexity. HSE, Faculty of Computer Science. Teaching assistant.
2016, 2016, 2018	Discrete Mathematics – 2. HSE, Faculty of Computer Science. Teaching assistant.
2016, 2017, 2018	Information Theory. Yandex School of Data Analysis. Teaching assistant.
2016	Computability and Complexity. Independent University of Moscow, Math in Moscow Program. Teaching assistant.

## Grants

- 2016-2018                      Russian Fund for Basic Research grant 16-01-00362, co-performer.  
Project title: computational complexity and descriptive complexity.  
Project leader: Nikolay Vereshchagin.
- 2016-2017                      Grant of the President of Russian Federation (MK-7312.2016.1),  
co-performer.  
Project title: complexity of Boolean functions and interactive computations.  
Project leader: Vladimir Podolskii.

## Other achievements

Prize winner of the final of the All-Russian Olympiad in Mathematics for high school students in 2008, 2009 and 2010.

## Summer schools and academic visits

- 2019                              LIRMM CNRS  
Montpellier, France.  
Two-week visit, invited by Alexander Shen.
- 2018                              Summer School on Algorithms and Lower Bounds  
Prague, Czech Republic.
- 2018                              Recent Advances in Algorithms.  
Summer School in St. Peterburg.
- 2016                              Special Semester on Computational and Proof Complexity.  
St. Peterburg.
- 2010, 2011                      Contemporary Mathematics.  
Summer School in Dubna.