

# Alexey MILOVANOV

## PERSONAL DATA

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PLACE AND DATE OF BIRTH: Vologda, Russia | 23 March 1991  
ADDRESS: Leninskie gory 1 B - 1748, Moscow, 119192, Russia  
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EMAIL: [almas239@gmail.com](mailto:almas239@gmail.com), [amilovanov@hse.ru](mailto:amilovanov@hse.ru)

## WORK EXPERIENCE

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2016 - Present    Research Assistant  
Laboratory of Theoretical Computer Science  
Faculty of Computer Science  
National Research University Higher School of Economics

## EDUCATION

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2014 - Present    Phd in MATHEMATICS  
Lomonosov Moscow State University  
Scientific Adviser: Nikolay K. Vereshchagin  
2008 - 2013    Specialist in MATHEMATICS  
Lomonosov Moscow State University  
Scientific Adviser: Mikhail A. Cherepniov  
Thesis: "Bounds of some parameters of elliptic curve on finite field"  
([arxiv.org/abs/1307.0648](http://arxiv.org/abs/1307.0648))

## RESEARCH INTERESTS

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Kolmogorov complexity • Algorithmic statistics • Computational complexity theory • Cryptography

## PUBLICATIONS

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- Milovanov Alexey, "Some properties of antistochastic strings". CSR 2015, LNCS 9139, pp. 339-349, 2015. Yandex Best Student Paper Award.
- Milovanov Alexey, "Algorithmic statistics, prediction and machine learning". STACS 2016, LIPICS Vol. 47, pp. 54:1-54:13.
- Milovanov Alexey, "Algorithmic Statistics: Normal Objects and Universal Models", CSR 2016, LNCS 9691, pp. 280-293, 2016.
- Milovanov Alexey, "Some Properties of Antistochastic Strings", Theory of Computing Systems. 2016.

## OTHER RESEARCH

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- A. Milovanov, Bounds of some parameters of elliptic curve on finite field.  
<http://arxiv.org/abs/1307.0648>
- A. Milovanov,  $\#P$ - and  $\oplus P$ - completeness of counting roots of a sparse polynomials.  
<http://arxiv.org/abs/1608.07564>

## INTERNATIONAL COLLABORATION

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2015 - visit to LIRMM, Montpellier. Invited by A. Shen.

## TEACHING EXPERIENCE

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2014- Present    Math teacher in an elective course for talented schoolchildren at Moscow State University

## LANGUAGES

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RUSSIAN:    Mothertongue  
ENGLISH:    Upper-Intermediate