

# Andrey Ustyuzhanin

Head of Laboratory at National Research University — Higher School of Economics

andrey.u@gmail.com

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## Summary

Researcher, data scientist, software developer. Has extensive experience working in different roles and with variety of development/research methodologies. Particularly interested in finding applications of scientific approaches from distributed and heterogeneous system design, machine learning, statistics to various areas including particle physics, bioinformatics, robotics. Has extensive experience of working in team of researcher as well as leading research team. Avid follower of reproducible research approach.

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## Experience

### **Head of Laboratory at National Research University — Higher School of Economics**

February 2015 - Present (6 months)

Head of Laboratory of Methods of Big Data Analysis (<http://cs.hse.ru/lambda/>) aimed at doing multidisciplinary research on fundamental science problems and data science. Organization of seminars & summer schools (<http://www.hse.ru/mlhep2015/>) focused on bridging the gap between data science and particular field of fundamental science.

### **Head of joint CERN-Yandex Research & Education programs at Yandex Data Factory**

January 2014 - Present (1 year 7 months)

Learning to apply frontier data science approaches and cutting edge IT technologies for solving most advanced scientific problems.

### **Researcher at Russian Research Center "Kurchatov Institute"**

January 2014 - Present (1 year 7 months)

Research on particle physics topics bounded up with Machine Learning techniques.

### **Visiting Researcher at Imperial College London**

January 2012 - Present (3 years 7 months)

Research on particle physics topics bounded up with Machine Learning techniques.

### **Associate Professor of Computer Science at Chair of Computer Science in Moscow Institute of Physics and Technology**

2002 - Present (13 years)

Courses: - Robotics - Multiagent System development - .NET application development Coaching MIPT team for Imagine Cup competition (<http://www.microsoft.com/presspass/events/imaginecup/wwfsoftwaredesign.aspx>) Supervision of bachelor, master & Ph.D. student thesis

**Researcher at Yandex**

October 2010 - December 2013 (3 years 3 months)

User behavior targeting Application of machine learning techniques for advertising optimization. Large-scale data statistical analysis.

**Co-founder at Exasory Group**

2009 - December 2013 (4 years)

Exasory Group provides management consulting and IT services to SMBs and government agencies in Russia. We deliver superb solutions to complex business challenges and help implement them.

**RHEL, Jboss Senior Consultant at VDEL**

2006 - December 2013 (7 years)

Teaching JB336 course at CIS & Eastern Europe.

*2 recommendations available upon request*

**Imagine Cup 2012 Judge at Microsoft**

July 2012 - July 2012 (1 month)

I was member of international judging team for software design invitational. <http://www.imaginecup.com>

**Software Design Invitational Judge, world-finals at Microsoft Imagine Cup 2011**

June 2011 - July 2011 (2 months)

I was member of international judging team for software design invitational. Together with panel of fellow judges and our captain Rob Miles we had to evaluate 50+ projects gathered from around the world in order to select the most advanced and most consonant with Imagine cup criteria project. Imagine Cup is the most spectacular technology competition in the world: more than 350K students applying for solving the world's toughest problems by creating innovative software solutions. <http://www.imaginecup.com>

**Head of software engineering department at Starlink Telecom**

2009 - September 2010 (1 year)

Responsibilities: - Business process automation management; - Software development management; - IT architecture development supervision; - Billing system support management;

*1 recommendation available upon request*

**Software Design Invitational Judge at Microsoft Imagine Cup 2010**

July 2010 - July 2010 (1 month)

I was member of international judging team for software design invitational. Together with panel of fellow judges and our captain Roger Lawrence we had to evaluate 68 projects gathered from around the world in order to select the most advanced and most consonant with Imagine cup criteria project. Imagine Cup is the most spectacular technology competition in the world: more than 300K students applying for solving the world's toughest problems by creating innovative software solutions. <http://www.imaginecup.com>

**Software Analyst at VDEL CREC**

2004 - 2009 (5 years)

Software analysis, Software architecture development, Project Management

**Project Manager, Project Architect at CREC MIPT**

2001 - 2004 (3 years)

development of enterprise-wide distributed system, elaboration of requirements for multiagent data integration solution, management of text mining analytical system, extensible multiagent system development

**Project Manager at Institute of System Programming of Russian Academy of Science**

1999 - 2002 (3 years)

CASE software for development of control systems based on autonomous adaptive system design methodology

**IT Analyst, System Administrator at Glowbyte**

1998 - 2000 (2 years)

Network topology planning, adjacent network coordination. Maintenance and installation of company servers & working stations.

**System Administrator, Software developer at ILM Moscow**

1995 - 2000 (5 years)

System administration, load balancing planning, billing system development & maintenance. Linux server administration.

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System administration, load balancing planning, billing system development & maintenance. Linux server administration.

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## Volunteer Experience

**Imagine Cup Worldwide Finals Judge at Microsoft**

July 2010 - July 2013 (3 years 1 month)

I was member of international judging team for software design invitational. <http://www.imaginecup.com>

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## Projects

**Yandex-CERN collaboration**

December 2011 to Present

Members: Andrey Ustyuzhanin, Victor Gorelik, Grigory Kondakov

LHCb event metadata analysis & event index design.

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## Languages

**English**

**Russian**

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## Skills & Expertise

**Software Development**

**Distributed Systems**

**Software Design**

**Linux**

**Programming**

**Python**

**Software Engineering**

**Teaching**

**Machine Learning**

**Statistics**

**.NET**

**Computer Science**

**Research**

**MySQL**

**Algorithms**

**Architecture**

**C++**

**Perl**

**C#**

**PostgreSQL**

**SQL**

**Databases**

**Subversion**

**Java**

**Agile Project Management**

**XML**

**OOP**

**MapReduce**

**Cloud Computing**

**Project Management**

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## Education

**Institute of System Programming (Russian Academy of Sciences)**

Doctor of Philosophy (Ph.D.), Computer Science, 2007

**Moscow Institute of Physics and Technology (State University) (MIPT)**

Master of Science (M.Sc.), applied mathematics & physics, autonomous control systems, 1994 - 2000

**Moscow Institute of Physics and Technology**

M.Sc., Innovative Management, 1998 - 1999

Activities and Societies: internship at Roel Consulting company

**Moscow Institute of Physics and Technology**

Bachelor of Science (B.Sc.), Applied Mathematics, 1994 - 1998

Activities and Societies: PhysTech Alumni

**Moscow Chemical Lyceum**

Mathematics & Physics, 1991 - 1994

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**Honors and Awards**

Imagine Cup 2012 Best Faculty Support Award Microsoft Certified Professional Linux Professional Institute (LPI) level 2 Certificate RedHat RHCE, RHCT Advisor of MIPT student team Inspiration that won: - 2nd place at Imagine Cup 2004 - 1st place of Imagine Cup 2005

**Interests**

photography, traveling, snowboarding, windsurfing, biking

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## 3 people have recommended Andrey

"I worked with Andrey for few years and can recommend him as superb IT professional with broad vision of technologies, deep architectural experience and perfect communication skills. This combination makes Andrey very efficient instructor, consultant and project manager."

— **Alexey Vasyukov**, *Presale lead, VDEL*, worked with Andrey at VDEL

"I've worked with Andrey for a few years in VDEL and can endorse him as a professional with deep and wide understanding of the Information Technology industry. Andrey is a result oriented, hard working and intelligent professional with excellent customer focused mind. As Red Hat instructor he achieved excellent results in engineers trainings. It is always a pleasure to work with Andrey."

— **Konstantin Khabarov**, *Support Leader and IT Consulting, VDEL*, worked directly with Andrey at VDEL

"Andrey belongs to a rare type of managers, who can immediately answer a question, considering all the facts, this question regards to. He can restore the history of the question in mind (in case of long-term story), highlight core facts (which will affect the decision), collect and motivate core people around. As a result an enquirer gets comprehensive answer (expressing in letter or action) and this answer will weigh the pros and cons by all means. There is no question, that Andrey can't answer, or a problem that can't be thoroughly solved."

— **Alexey Koroteev**, *Developer, Starlink Telecom*, was with another company when working with Andrey at Starlink Telecom

[Contact Andrey on LinkedIn](#)