Alexey Alekhin

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Education

2006–2012   Saint Petersburg State University, Faculty of Mathematics and Mechanics, Specialist degree in Mathematics.
            Diploma thesis: "Cohomology of the 16 order modular group over the integer ring";
2003–2006   Saint Petersburg Laboratory for Continuous Mathematical Education (secondary education).

Additional education

2012–present   Marie Curie International Training Network INTERCROSSING (3 years) — Era7 Bioinformatics, Granada, Spain;
July 2011   Leonhard Euler DAAD program (1.5 month) — Bielefeld University, Germany;
2010–2011   Computer Science Club courses (1 semester) — Saint Petersburg Department of the Steklov Institute of Mathematics of the Russian Academy of Sciences;
2010–2011   Bioinformatics courses (1 semester) — Saint Petersburg University of the Russian Academy of Sciences;
1998–2003   Programming courses (5 years) — Computer Science Center of the Saint Petersburg Anichkov Youth Center.

Awards & achievements

2006   Participation in the final of the *Intel International Science and Engineering Fair*, (Indianapolis, USA);
2006   Second prize and the special award at the *Baltic Science and Engineering Fair*, (Saint Petersburg, Russia);
2006   First prize at the *Junior Science and Engineering Fair*, (Moscow, Russia);
2006   Second prize at the *XV Open Russian Scientific-Practical Conference*, (Moscow, Russia);
2005   Third prize at the *XII International Conference of Young Scientists*, (Katowice, Poland);
2001, 1999   First prize at the *local conference of Computer Science Center* of the Saint Petersburg Anichkov Youth Center.

Scientific interests

Homological algebra, Category theory, Functional programming, Lambda calculus.

Teaching experience

Linear Algebra course

2011   Saint Petersburg State University (pedagogical practice, 1 semester)

"Basics of Functional Programming in Haskell" course

2008–2011   Saint Petersburg Laboratory for Continuous Mathematical Education;
2007–2009   Computer Science Center of the Saint Petersburg Anichkov Youth Center.

Work experience

2012–present   Era7 Bioninformatics. Researcher; Cathegory theory; Bioinformatics; Cloud computing (Scala);
2011–2012   Systema-Soft. Software development for the iOS mobile platform; user interface design (Objective C, Cocoa);
2009–2010   Metrotek Science and Technology Center. Optimisation of algorithms for telecommunication measurements data analysis (C, Haskell).

Computer skills

Proficient user of

Mac OS X, Linux, Windows operating systems; Maple computer algebra system; Vim editor; TeX (LaTeX/XeTeX) typesetting system.

Programming experience (in descending order)

Haskell, Scala, Objective C, Python, C, Bash.

Languages

Russian: native speaker;
English: IELTS band score 7.0 (June 2012).