

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

- 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

2011–present 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; \LaTeX ($\text{\LaTeX}/\text{\XeTeX}$) typesetting system.

Programming experience (in descending order)

Haskell, Objective C, C.

Languages

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