

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

Category theory, Type theory, Functional programming, Bioinformatics, NGS data analysis, Graph databases.

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; Category theory; Bioinformatics (NGS data); Cloud computing (Scala, AWS);

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).

Programming experience

Scala, Haskell, Objective C/C, Bash, Python. (in descending order)

Languages

Russian: native speaker;

English: IELTS band score 7.0 (June 2012);

Spanish: Elementary spoken.

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Source: <https://github.com/laughedelic/cvtex>