



# Denis Morozov

## Curriculum Vitae

*"Wir müssen wissen, wir werden wissen" - David Hilbert*

### Education

- 2011–present **Degree expected: Doctor of mathematical sciences**, *National University of "Kyiv-Mohyla Academy"*, Kyiv, Ukraine.  
Institution of doctoral candidacy
- 2001–2003 **Degree: Candidate of Sciences in Physics and Mathematics (Equivalent of PhD)**, *National University of "Kyiv-Mohyla Academy"*, Kyiv, Ukraine.  
Post-graduate courses
- 1996–2001 **Degree: Master**, *Taras Shevchenko National University of Kyiv*, Ukraine.  
Department of Algebra ( Mechanics and Mathematics Faculty)

### Experience

#### Vocational

- 2014–2015 **Scientific consultant**, BETLAB, Math team, Kyiv.  
Lead of math team. Analysis on the correctness of the bookmaking models.
  - Work to create R&D department in Betlab and the organization of scientific research process.
  - Math lecturers for team members.
  - Analysis of existing models and the development of alternative.
- 2013–2014 **Researcher**, INNOVECS, Household project team, Kyiv.  
Build math model for recommendation system.
- Detailed:
  - Data analysys.
  - Build model with collaborative filtration methods.

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2011–2013 **Lead of innovation team**, SAMSUNG UKRAINE, R&D Center, Kyiv.

We conducted a research process accompanied by writing prototypes in C++ and F#. My team has developed several research priorities and engaged in support of the product during the implementation of the solutions found.

Detailed:

- Development of Discrete Fourier Transform algorithm based on finite algebraic fields.
- Math support for development of syntactical and lexical analyzers.
- Project Lead of homomorphic cryptographical project.
- Development of module for generation of complex graphics effects.
- Development of the recognition module.
- Research of dynamical systems generated by cellular automata and objects of fractal geometry.
- Math support for development process.
- Math lectures for engineers of Samsung Ukraine R&D Center.

2001–present **Lecturer**, NATIONAL UNIVERSITY "KYIV-MOHILA ACADEMY", Computer Science Faculty, Department of Mathematics, Kyiv.

Lectures for students.

Detailed:

- Courses for Computer Science Faculty: Theory of Algorithms, Mathematical Logics, Systems of Information Encoding, Algebra and Number Theory, Linear Algebra and Analytic Geometry, Discrete Mathematics, Additional Chapters of Discrete Mathematics.
- Courses for Faculty of Economics: Probability Theory, Mathematical Analysis.
- Students' supervisor of term papers.
- Write workbooks and science papers.

2000–2001 **Lecturer**, KYIV NATIONAL UNIVERSITY OF NATIONAL ECONOMY, Department of Mathematics, Kyiv.

Lectures for students.

Detailed:

- Course of Linear Algebra for Faculty of Economics.

2000–2001 **Lecturer**, POLYTECHNICAL LYCEUM, Physics and mathematics branch, Izmail, Ukraine.

Lectures for schoolchildren.

Detailed:

- Course of Complex Numbers.

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## Computer skills

C++ - 6 years experience( 3 years in industrial development)

OCaml, F# - use for writing prototypes

Knowledge of Prolog, Assembler, Perl, SQL, Forth,  $\text{\LaTeX}$ , plain $\text{\TeX}$ , PostScript, MetaPost, Emacs Lisp, VIM scripts

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## Tools and Systems

Matlab, Maple, Emacs, Vim, Flex, Bison, Git

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## Languages

Ukrainian	<b>Mothertongue</b>	<i>Work language in University</i>
Russian	<b>Mothertongue</b>	
English	<b>Intermediate</b>	<i>Work language to read and write science papers</i>
Mathematics	<b>Mothertongue</b>	<i>Fluent conversion the real world objects to formal constructions</i>

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## Awards

- 1996 Prize-winner, Ukraine Republican Mathematical Competition
- 2003–2008 Prize-winner of the mix-fights competitions, Champion of the open all-Ukrainian tournament of Ukrainian martial art "Boiovii Gopak"
- 2015 Finisher of Kyiv half-marathon (21 km)

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## Achievements and Activities

- 2000–present Research into algebra and theory of algorithms
- 2001–present Leader and lecturer of the mathematical circle for young students in National University of "Kyiv-Mohila Academy"
- 2005–present Trainer of students in mix-fight techniques
- 2006–2013 Member of the ukrainian folk dance group "Perlina"
- 1985–1991 Musical education, play piano

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## Interests

- Piano
- Mix fights
- Running
- Guitar
- Folk dances