

# Lina KULAKOVA

## PERSONAL DATA

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PLACE OF BIRTH: Nizhny Novgorod, Russia  
DATE OF BIRTH: 1 December 1990  
ADDRESS: Haldenstrasse 16, 8142 Uitikon Waldegg, Switzerland  
PHONE: +7 926 491-27-06  
EMAIL: [kulakova.lina@gmail.com](mailto:kulakova.lina@gmail.com)

## EDUCATION

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| 2008–2013 | <a href="#">MOSCOW STATE UNIVERSITY</a> , Moscow<br>Degree: Specialist <sup>1</sup> of Science in MATHEMATICS<br>Major: Computational Mathematics<br>Advisor: Kirill Yu. BOGACHEV<br>Final Grade: 4.9/5 |
|           | <a href="#">  Detailed List of Exams</a>  |
| 2007–2008 | <a href="#">ADVANCED EDUCATIONAL AND SCIENTIFIC CENTER OF MOSCOW STATE UNIVERSITY</a> , Moscow<br>Major: Mathematics and Physics<br>Final Grade: 4.9/5  |
| 2001–2007 | GYMNASIUM 80, Nizhny Novgorod<br>Final Grade: 5/5   |
| Aug 2006  | SUMMER MATHEMATICS SCHOOL, Kostroma region, Russia  |

<sup>1</sup>Specialist is a Russian degree equivalent to Master

## INTERNSHIPS

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| 2013 | INTERNSHIP IN ETH ZURICH<br>Worked on uncertainty quantification project  |
| 2013 | INTERNSHIP IN TU WIEN<br>Studied some fast and effective C++ techniques   |
| 2012 | <a href="#">GOOGLE SUMMER OF CODE</a><br>Open-source developer of « <a href="#">FLINT – Fast Library for Number Theory</a> » project. Worked on polynomial factorisation over finite fields |

## CONFERENCES

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| 2012 | INTERNATIONAL STUDENT, POSTGRADUATE AND YOUNG SCIENTIST CONFERENCE «LOMONOSOV-2012», MOSCOW<br>Certificate for an excellent report «Statistical method of interpolation surface construction (kriging)» |
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## WORK EXPERIENCE

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2011–2013	<b>Programmer at <a href="#">ROCK FLOW DYNAMICS</a>, Moscow</b> <b>Hydrodynamic Reservoir Simulation</b> Geostatistical interpolation module: implementation of parallel two- and three-dimensional simple, ordinary and universal kriging, sequential Gauss simulation and corresponding graphical user interface Linear solvers module: writing new classes for preconditioners
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## SCHOLARSHIPS AND AWARDS

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2012	Scholarship for students with an outstanding curriculum
2007	I <sup>st</sup> place in the European School Championship of «What? Where? When?» <sup>2</sup> ( <i>in team</i> )
2006	III <sup>rd</sup> place in the Mathematical Olympiad of Nizhny Novgorod

<sup>2</sup>«What? Where? When?» is an intellectual game widely spread in ex-Soviet Union countries including Russia. There are also teams in the USA, Germany and Israel.

## RESEARCH INTERESTS

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**APPLIED MATHEMATICS:** Numerical methods in spatial geostatistics  
Large sparse linear systems solving  
Uncertainty quantification

## COMPUTER SKILLS

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**LANGUAGES:** C, C++,  $\text{\LaTeX}$   
**VERSION CONTROL:** Git  
**OPERATION SYSTEMS:** LINUX

## SPOKEN LANGUAGES

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**RUSSIAN:** Native  
**ENGLISH:** Upper-Intermediate  
**FRENCH:** Moderate  
**BULGARIAN:** Moderate

## ACTIVITIES

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<b>SPORT</b>	<b>ARTISTIC GYMNASTICS</b> Advanced Degree <b>ATHLETICS</b> Advanced Degree in 50-meter distance
<b>WORK CAMPS</b>	<b>VOLUNTEERING IN FRANCE</b> Environmental Work Camp in 2011, constructional Work Camps in 2006 and 2008 <b>VOLUNTEERING IN SOUTH KOREA</b> Environmental Work Camp in 2010, art Work Camp in 2010
<b>OTHER</b>	<b>HISTORICAL DANCES, DRAWING</b>

# Specialist of Science in MATHEMATICS

## Grades

EXAM	GRADE
Calculus	5/5
Real Calculus	4/5
Complex Calculus	5/5
Functional Calculus	4/5
Variation Calculus and Optimal Control	5/5
Algebra	5/5
Linear Algebra	5/5
Analytical Geometry	5/5
Discrete Mathematics	5/5
Mathematical Cybernetics	5/5
Number Theory	5/5
Models and Algorithms in Bioinformatics	5/5
Classical Differential Geometry	5/5
Differential Geometry and Topology	5/5
Probability Theory	5/5
Statistics	5/5
Random Processes Theory	4/5
Ordinary Differential Equations	5/5
Partial Differential Equations	5/5
Non-linear Equations of Mathematical Physics	5/5
Mathematical Logic	4/5
Programming	5/5
Parallel Programming	5/5
Fast Calculations	5/5
Numerical Methods	5/5
Classical Mechanics	5/5
Analytical Mechanics	5/5
Mechanics of Continuous Media	5/5
Physics	5/5
Quantum Field Theory	5/5
English Language	5/5
Economics	5/5
History	4/5
Philosophy	5/5
Course Work'11	5/5
Course Work'12	5/5
Diploma Work	5/5
State Exam	5/5