

Lina KULAKOVA

PERSONAL DATA

PLACE OF BIRTH: Nizhny Novgorod, Russia
DATE OF BIRTH: 1 December 1990
ADDRESS: Haldenstrasse 16, 8142 Uitikon Waldegg, Switzerland
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EDUCATION

2013– <i>present</i>	ETH ZURICH , Zurich PhD student Major: Applied Mathematics Advisor: Prof. Dr. Petros KOUMOUTSAKOS
2008–2013	MOSCOW STATE UNIVERSITY , Moscow Degree: Specialist ¹ of Science in MATHEMATICS Major: Computational Mathematics Advisor: Kirill Yu. BOGACHEV Final Grade: 4.9/5 Detailed List of Exams
2007–2008	ADVANCED EDUCATIONAL AND SCIENTIFIC CENTER OF MOSCOW STATE UNIVERSITY , Moscow Major: Mathematics and Physics Final Grade: 4.9/5
2001–2007	GYMNASIUM 80, Nizhny Novgorod Final Grade: 5/5
Aug 2006	SUMMER MATHEMATICS SCHOOL, Kostroma region, Russia

¹Specialist is a Russian degree equivalent to Master

INTERNSHIPS

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

CONFERENCES

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

2011–2013	Programmer at ROCK FLOW DYNAMICS, Moscow Hydrodynamic Reservoir Simulation 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

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

²«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

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

COMPUTER SKILLS

LANGUAGES: C, C++, \LaTeX
VERSION CONTROL: Git
OPERATION SYSTEMS: LINUX

SPOKEN LANGUAGES

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

ACTIVITIES

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

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