Lina Kulakova

PERSONAL DATA

PLACE OF BIRTH: Nizhny Novgorod, Russia

DATE OF BIRTH: 1 December 1990

ADDRESS: Haldenstrasse 16, 8142 Uitikon Waldegg, Switzerland

EMAIL: kulakova.lina@gmail.com

EDUCATION

2013-

ETH ZURICH, Zurich

present | PhD student

Major: Mechanical Engineering

Advisor: Prof. Dr. Petros Koumoutsakos

2008-2013

Moscow State University, Moscow

Degree: Specialist¹ 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

Aug 2006 | SUMMER MATHEMATICS SCHOOL, Kostroma region, Russia

INTERNSHIPS

2013 | Internship in ETH Zurich

Worked on uncertainty quantification project

2013 | Internship in TU Wien

Studied some C++ techniques needed for efficient algebraic computations

2012 GOOGLE SUMMER OF CODE

Open-source developer of ${\tt «FLINT - Fast \ Library}$ 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)»

¹Specialist is a Russian degree equivalent to Master

WORK EXPERIENCE

2011-2013

Programmer at ROCK FLOW DYNAMICS, Moscow

Hydrodynamic Reservoir Simulation

Parallel (pthreads) implementation of kriging, implementation of sequential Gaussian simulation and corresponding graphical user interface (OpenGL)

COMPUTER SKILLS

LANGUAGES: C, C++, Python, MATLAB, LATEX

VERSION CONTROL: Git

OPERATION SYSTEMS: LINUX, MACOS

SPOKEN LANGUAGES

RUSSIAN: Native

ENGLISH: Upper-Intermediate

FRENCH: Intermediate
BULGARIAN: Intermediate
GERMAN: Beginner

RESEARCH INTERESTS

APPLIED MATHEMATICS: Uncertainty quantification

Large sparse linear systems solving

Numerical methods in spatial geostatistics

ACTIVITIES

SPORT | ARTISTIC GYMNASTICS

Advanced Degree ATHLETICS

AIRLETICS

Advanced Degree in 50-meter distance

WORK | VOLUNTEERING IN FRANCE

CAMPS | 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 | TANGO, HISTORICAL DANCES, DRAWING

Specialist of Science in MATHEMATICS Grades

Ехам	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