

Petar I. Ivanov

Born: 29 MAY 1989 in Shumen, Bulgaria
Address: 1 Leninskie gory, B-737, Moscow 119192, Russia
Phone: +7 (963) 929-10-52
E-mail: peter.ivanov89@gmail.com



EDUCATION

2009 – 2014 (current)	Specialist degree (5 th year out of 5) in APPLIED MATHEMATICS AND INFORMATICS Major in Computer vision at GRAPHICS & MEDIA LABORATORY <i>Faculty of Computational Mathematics and Cybernetics</i> Moscow State University , Russia
2011 – 2013	Student in a continuing BIOINFORMATICS school Yandex's School of Data Mining , Russia
2008 – 2009	Bachelor degree in COMPUTER SCIENCE (<i>entered in Moscow after the first year</i>) <i>Faculty of Mathematics and Informatics</i> Sofia University , Bulgaria
2000 – 2008	Mathematics and Physics class <i>Graduated with honors</i> High school of Natural Sciences and Mathematics , Shumen, Bulgaria

Additional:

JAN 2011	VISION AND MACHINE-LEARNING RESEARCH SCHOOL, ENS Lyon, France
JUL 2008	RUSSIAN SUMMER INFORMATICS CAMP, Sudislavl', Kostroma region, Russia
AUG 2007	PHYSICS CAMP, Panitsite region, Bulgaria
2004 – 2007	SUMMER RESEARCH INFORMATICS CAMP, Varna, Bulgaria
2001 – 2008	MATHEMATICS AND INFORMATICS PRIVATE SCHOOL "A&B", Shumen, Bulgaria

Complementary courses passed:

Moscow State University	IMAGE PROCESSING VIDEO PROCESSING COMPUTER VISION COMBINATORIAL OPTIMIZATION BIOINFORMATICS TOOLS	Sofia University	COMPUTATIONAL GEOMETRY COMPUTATIONAL LINGUISTICS
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WORK EXPERIENCE

JUL 2013 – AUG 2013	<i>Implementing of a new feature in SPAdes (an open source genome assembler) – presentation</i> supervised by Dr. Pavel Pevzner, Algorithmic Biology Lab St. Petersburg Academic University of the Russian Academy of Sciences (bioinf.spbau.ru)
SEP 2012 – (current)	<i>Programming of cellular/populational models</i> supervised by prof. Konstantin Severinov, Molecular Genetics of Microorganisms Lab Institute of Gene biology, Russian Academy of Sciences (genebiology.ru)
JUL 2012 – AUG 2012	<i>Researcher on verification of probabilistic biological models</i> supervised by prof. Martin Vechev, Software Reliability Lab ETH Zurich (srl.inf.ethz.ch), Switzerland
JUL 2011 – AUG 2011	<i>Open source developer of local topological operators on tetrahedral meshes</i> Computational Geometry Algorithms Library (CGAL) (cgal.org) Google Summer of Code (code.google.com/soc)
AUG 2010	<i>Lecturer of school students</i> Russian Summer Informatics Camp (lksh.ru), Saratov, Russia
MAR 2008 – JUNE 2009	<i>Assistant in “DESIGN AND ANALYSIS OF ALGORITHMS” course</i> Faculty of mathematics and informatics, Sofia University, Bulgaria
SEPT 2008 – JUNE 2009	<i>Jury, organizer, tester and author of the problems in</i> ON-LINE PROGRAMMING TOURNAMENT (konkurs.musala.com) Musala Soft, Sofia, Bulgaria
SEPT 2008 – JUNE 2009	<i>Author of problems in all BULGARIAN TOURNAMENTS IN INFORMATICS</i> <i>Lecturer in the NATIONAL INFORMATICS CAMPS</i> National Committee in Informatics, Bulgarian Ministry of Education
JULY 2007 – SEPT 2007	<i>Developer of a bin-packing genetic algorithm for glass cutting optimization</i> Telepol Net (http://telepol.net/telepol.net/), Shumen, Bulgaria

AWARDS

the competitions are National Bulgarian if nothing else stated

I st place	“MINKO BALKANSKI” COMPETITION IN INFORMATICS ’08
XI th place	TOPCODER HIGH SCHOOL FINALS, West Lafayette, USA ’08
I st place	AUTUMN TOURNAMENT IN INFORMATICS ’07
I st place	Student Competition for the DEAN’S CUP OF SOFIA UNIVERSITY ’07
II nd place	INTERNATIONAL YOUNG PHYSICISTS TOURNAMENT (<i>regional, in team</i>) ’06
I st place	“RUMEN GROZDANOV” INFORMATICS AND MATHEMATICS TOURNAMENT ’06
I st place	WINTER TOURNAMENT IN INFORMATICS ’06

- Awarded as a NATIONAL LAUREATE IN INFORMATICS, Bulgaria, ’08
- Classed for the final rounds of the BULGARIAN OLYMPIAD IN INFORMATICS, from ’05 to ’08 (*incl.*)
- Participant in the [TOPCODER HIGH SCHOOL FINALS](#), West Lafayette, USA ’07 and ’08
- Classed for the final rounds of “[MUSALA SOFT AND PC MAGAZINE](#)” competition in ’07 and ’08
- Scholarship for *science achievements* of [AMERICAN FOUNDATION FOR BULGARIA](#) in ’07 and ’08

SPOKEN LANGUAGES

ENGLISH: Upper-Intermediate (*certified*)
RUSSIAN: Fluent (*certified*)
BULGARIAN: Native

INFORMATION TECHNOLOGIES

Languages: C / C++ (**STL**), Python (NumPy, SciPy), Ruby, MATLAB, Java, Pascal
Technologies: Unix, Bash, Vim, Git, HTML / CSS, \LaTeX

ACTIVITIES

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- Scientifically interested in:
 - Bioinformatics
 - Combinatorial Optimization
 - Computer Vision
 - Computational Geometry
 - Genetics
 - Machine Learning
 - Robotics
 - Solving algorithmical problems ([TOPCODER](#), [TIMUS](#), [ROSALIND](#))
 - Getting open sourced ([GitHub profile](#))
 - Founder of the [students-abroad.info](#) project for describing foreign educational systems by Bulgarians studying abroad
 - Practicing hiking, orienteering, long-distance running (*personal records*: 42.195km in 3:43h – [Zelenograd, Russia, Dec 2011](#); 100km in 13:19h – [Vitosha mountain, Bulgaria, Jul 2012](#))