

# Petar I. Ivanov

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Born: 29 MAY 1989 in Shumen, Bulgaria  
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## EDUCATION

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2009 – 2014 (current)	Specialist degree (4 <sup>th</sup> year out of 5) in APPLIED MATHEMATICS AND INFORMATICS Major in Computer vision, GRAPHICS & MEDIA LABORATORY <i>Faculty of Computational Mathematics and Cybernetics</i> <b>Moscow State University</b> , Russia
2011 – 2013	Student (1 <sup>st</sup> year out of 2) in BIOINFORMATICS <b>Yandex's School of Data Mining</b> , Russia
2008 – 2009	Bachelor degree (1 <sup>st</sup> year) in COMPUTER SCIENCE <i>Faculty of Mathematics and Informatics</i> <b>Sofia University</b> , Bulgaria
2000 – 2008	Mathematics and Physics class <i>Graduated with honors</i> <b>High school of Natural Sciences and Mathematics</b> , 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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## AWARDS

*the competitions are National Bulgarian if nothing else stated*

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

## SPOKEN LANGUAGES

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

## INFORMATION TECHNOLOGIES

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Languages: C/C++ (STL), PYTHON (NUMPY, SCIPY), MATLAB, JAVA, PASCAL, ASSEMBLER, HTML, PHP, ~~L~~TEX  
Technologies: UNIX, BASH, VIM, Git

## ACTIVITIES

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- Scientifically interested in:
    - Bioinformatics
    - Computer Vision
    - Computational Geometry
    - Genetic Algorithms
    - Machine Learning
  - Solving algorithmical problems (TOPCODER, TIMUS, ROSALIND)
  - Founder of the STUDENTS-ABROAD PROJECT for describing some foreign educational systems by Bulgarians studying abroad
  - Practicing hiking, orienteering, long-distance running (Dec 2011, Zelenograd, Russia – 42.195km in 3:43h; Jul 2012, Vitosha mountain, Bulgaria – 100km in 13:19h)

## WORK EXPERIENCE

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