

Petar I. Ivanov

Born: 29 MAY 1989 in Shumen, Bulgaria
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EDUCATION

2009 – 2014 (current)	Specialist degree (joint Bachelor & Master) 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

WORK EXPERIENCE

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

AWARDS

the competitions are National Bulgarian if nothing else stated

1 st place	“MINKO BALKANSKI” COMPETITION IN INFORMATICS ’08
XI th place	TOPCODER HIGH SCHOOL FINALS, West Lafayette, USA ’08
1 st place	AUTUMN TOURNAMENT IN INFORMATICS ’07
1 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
1 st place	“RUMEN GROZDANOV” INFORMATICS AND MATHEMATICS TOURNAMENT ’06
1 st place	WINTER TOURNAMENT IN INFORMATICS ’06

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

INFORMATION TECHNOLOGIES

Languages: C/C++ (**STL**), Python (NumPy, SciPy, Matplotlib), Ruby, MATLAB, Java, Pascal
Technologies: Unix, Bash, Vim, Git, HTML/ CSS, ~~La~~TeX
Algorithms: Graphs, Strings, Dynamic Programming, Geometry, Optimization (+Data structures)

SPOKEN LANGUAGES

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

ACTIVITIES

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- 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](#))