Petar I. Ivanov

Born: 29 May 1989 in Shumen, Bulgaria
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Education

2009 – 2014 (current)	Specialist degree *(5th year out of 5)* in Applied Mathematics and Informatics Major in Computer vision at Graphics & Media laboratory *Faculty of Computational Mathematics and Cybernetics* **Moscow State University**, Russia
2011 – 2013	Student *(1st year out of 2)* in Bioinformatics **Yandex's School of Data Mining**, Russia
2008 – 2009	Bachelor degree *(1st year)* in Computer science *Faculty of Mathematics and Informatics* **Sofia University**, Bulgaria
2000 – 2008	Mathematics and Physics class *Graduated with honors* **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	

Work Experience

Jul 2013 – Aug 2013	*Programmer of a new feature in SPAdes — an open source genome assembler* supervised by Dr. Pavel Pevzner, **Algorithmic Biology Lab** **St. Petersburg Academic University of the Russian Academy of Sciences** (bioinf.spbau.ru)
Sep 2012 – *(current)*	*Mathematics consultant and programmer 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 – June 2009	*Assistant in "Design and Analysis of Algorithms" course* **Faculty of mathematics and informatics, Sofia University**, Bulgaria
Sept 2008 – June 2009	*Jury, organizer, tester and author of the problems in* on-line programming tournament (konkurs.musala.com) **Musala Soft**, Sofia, Bulgaria
Sept 2008 – June 2009	*Author of problems in all Bulgarian Tournaments in Informatics* *Lecturer in the National Informatics Camps* **National Committee in Informatics**, **Bulgarian Ministry of Education**
July 2007 – Sept 2007	*Developer of a bin-packing genetic algorithm for glass cutting optimization* **Telepol Net** (http://telepol.net/telepol.net/), Shumen, Bulgaria

Awards

Ist place	"Minko Balkanski" Competition in Informatics '08
XIth place	TopCoder High School Finals, West Lafayette, USA '08
Ist place	Autumn Tournament in Informatics '07
Ist place	Student Competition for the Dean's cup of Sofia University '07
IInd place	International Young Physicists Tournament *(regional, in team)* '06
Ist place	"Rumen Grozdanov" Informatics and Mathematics Tournament '06
Ist 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

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

- 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 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)