



Kotlov Nikita

Male, 15 February 1995

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Place of residence: Moscow

Nationality: Russian Federation

Education

High school

2010 – 2012

Advanced Educational Scientific Center of M.V.Lomonosov Moscow State University — A.N.Kolmogorov School, Moscow

10-11 grade

Higher education

2012 – now (2018)

Lomonosov Moscow State University, Moscow

119234, Moscow, GSP-1, Leninskiye Gory, MSU, 1-73, office 433.

TEL/FAX: +7 (495) 939-41-95

4th-year student, Faculty of Bioengineering and Bioinformatics

Work in scientific labs

September 2012 – now
3 years 2 months

Enzyme kinetics laboratory, International Centre for Research in Biotechnology, MSU

119234, Moscow, GSP-1, Leninskiye Gory, MSU, 1-73, office 612.

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Student

1-2 term work Program complex for automatic protein-target preparation for docking *in silico* development, 2014

3 term work Docking quality of AutoDock 4.2, AutoDock VINA and SOL programs comparison on the example of membrane HEM-containing protein COX *in silico*, 2015

4 term work Program complex for docking results scoring in big scales on the example of COX enzyme *in silico*, 2016

June 2015 – August 2015 **Leiden Genome Technology Center, LUMC**

1 month

The Netherlands, Leiden, <http://www.lgtc.nl/>

Student

Project CYP2D6 genotyping using the single-molecule real-time PacBio RSII»
Curator: Seyed Yahya Anvar, Systems Biology, Bioinformatics at Leiden University Medical Center, Leiden.

Conferences & posters

XI FBB MSU student's conference, 2014	Poster "Program complex for automatic protein-target preparation <i>in silico</i> development" (1-st prize in bioinformatic section) (english)
XIV INTERNATIONAL CONFERENCE FOR YOUNG SCIENTISTS "BIOCHEMICAL PHYSICS" AND SCHOLL "MODERN PROBLEMS OF BIOCHEMICAL PHYSICS", 2014	Poster "Program complex for automatic protein-target preparation for docking <i>in silico</i> " (russian)
International scientific conference "Lomonosov", bioinformatic section, 2015	Report "Docking quality of AutoDock 4.2, AutoDock VINA and SOL programs comparison on the example of membrane HEM-containing protein COX <i>in silico</i> " (english)

Publications

Polar biology, 2015	Glaflira D. Kolbasova, Arthur O. Zalevsky, Azamat R. Gafurov, Philipp O. Gusev, Margarita A. Ezhova, Anna A. Zheludkevich, Olga P. Konovalova, Ksenia N. Kosobokova, Nikita U. Kotlov, Natalia O. Lanina, Anna S. Lapashina, Dmitry O. Medvedev, Katerina S. Nosikova, Ekaterina O. Nuzhdina, Georgii A. Bazykin, and Neretina Tatyana. A new species of cyanea jellyfish sympatric to c. capillata in the white sea. <i>Polar Biology</i> , pages 1–13, 2015. [DOI]
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Bioinformatics projects

2012 – now, Moscow	Bioinformatic programm PDBParser development (C++) (Github). Pdbparser is a multi-functional tool for files in pdb format. It helps with preparing files for docking and with also with results analysis. Main functions: <ul style="list-style-type: none">• Correcting PDB format errors in .pdb files• Atoms and residues sorting• Atoms in residue resorting• Cutting structures into monomers• Ligands' extraction and deletion• Ligands' additions• ROC diagrams creation and AUC values calculations• AutoDock 4.2 and AutoDock Vina results analysis• MOPAC post-processing• NAMD post-processing• Open Babel post-processing and pdb-format errors fixing• Structure moving and turning
2012 – now, Moscow	Automatic preparing for docking system (C++, MPI, bash).
2015, The Netherlands, Leiden	«CYP2D6 genotyping using the single-molecule real-time PacBio RSII», Summer bioinformatics school 2015, Leiden University Medical Center. Curator: Seyed Yahya Anvar, <i>Systems Biology, Bioinformatics at Leiden</i>

University Medical Center, Leiden.

A complex of programs in python, bash, R, php/html/css/js for automatic sequences haplotypes resolving. Graphical output helps doctors to easier understand results and to treat patients more efficient.

Additional courses

Bioinformatics	2015 institute, http://bioinformaticsinstitute.ru/	Genomic bioinformatics intensive
Stepic.org	2015	Introduction to Linux
Kaspersky Lab	2013	Kaspersky anti-virus school
Summer programming school, lksh.ru	2012	Algorithmic programming, parallel B
	2011	Algorithmic programming, parallel C+
	2011	Algorithmic programming, parallel C
Specialist, specialist.ru	2011	HTML/CSS
	2007	PC repairing and administrating course

Working experience (5 years)

September 2015 – now	«BostonGene» Moscow, http://bostongene.com/ Software developer, bioinformatician
February 2015 – September 2015	CJSC «NORSI-TRANS» Moscow, http://www.norsi-trans.ru/ Software developer
August 2012 - now	International Centre for Research in Biotechnology MSU Moscow, http://biocentr.msu.ru/ Student
August 2011 – December 2014 3 years 5 month	NCO "IRLEM" Moscow System administrator, web programmer

Certificates

2015	Introduction to Linux Genomic bioinformatic intensive 1st bioinformatics hackaton
2011	HTML & CSS. Level 1. W3C standards of sites development. HTML 5 and CSS 3 HTML & CSS. Level 2. Cross-browser development and bases of a usability Office and home PC administration and setup level 1 Office and home PC administration and setup level 2
2008	

Primary skills

Languages	Russian – native English – Speaking: Advanced. Reading: I read professional literature
Professional skills	PC administration and repairing, web programming and design, OOP, DDD, Unix, Microsoft Office, BigData, programming parallel programs, Cloud computing, Docker, OpenStack, Genome assembly, Quality control, Gene annotation, SNP identification, Fusions identification
Programming languages	C/C++ (>5 years), Python (>3 years), BASH (>3 years), Java (~1 year), Visual Basic, R, HTML4-5/CSS3/JavaScript (>5 years), AngularJs (~1 year), PHP (~1 year)
OS	Windows – administrator, advanced user Unix (Linux) – administrator, advanced user, command line
Bioinformatics soft	AutoDock 4.2, AutoDock Vina, SOL, Aplite, VMD, NAMD, Open Babel, PyMOL, Jmol, JalView, Mopac, Mega, MGLTools, PTools, Emboss, BLASR, ChemSketch, Origin, Bowtie, BWA, FastQC, SOAPFuse, Chimerascan, FuMa, Ericscan, SAMtools, Trimmomatic, Galaxy
Bioinformatics databases	Pubmed, PDB, PDBe, PDDBind, ChemSpider, SwissParam, Swissprot, Ensembl, Uniprot, Brenda, UCSC, Cath
Bioinformatics online services	Blast, Muscle, T-coffee, VEP, Chemmine-tools, Mutalyzer, KEGG, SwissParam.ch, Galaxy

Personal achievements

2015, Moscow	Captain of the team at The first bioinformatics hackathon (genehack.ru), winner of the In Silico Medicine & PONKC companies prize.
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Other information

Area of interest	Docking, molecular modeling, genome variation data analysis, genome assembly, new bioinformatics tools development, database development, processes automation, big data, programs projecting, cloud computing, containerisation.
About me	I am capable to cope with almost any new software I have excellent learning ability I am full of ideas and energy I have leadership skills I like playing volleyball and other active games