Dmitry Penzar Bioinformatician, ML enthusiast, teacher

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The online version is available at

• https://dmitrypenzar1996.github.io/resume

Residence

Moscow

Github

github **Email**

dmitrypenzar1996@gmail.com

Python	+++++	R	++++	C/C++	+++	Golang	++	Statistics	+++++	Classical	+++++
										ML	
Deep	++++	Algorithms	3 +++++	Molecular	+++	Bioinforma	ati ds +++	English	+++	English	+++++
learning				biology				(speaking)		(technical	
										literature)	

ML enthusiast

Professional Experience

Department of Computational Systems Biology, VIGG RAN

June 2017 - Current

Advisor: Dr. Ivan Kulakovskiy. Classical ML and Deep Neural Networks application for the regulatory mutations effect

ML biology healthcare

Belozersky Institute of Physico-Chemical Biology, Department of Mathematical Methods in Biology

September 2016 - June 2017

Advisor: S.A. Spirin

We developed a novel program, named PQ, for reconstructing protein and nucleic acid phylogenies following a new character-based principle.

C/C++ phylogeny software development

Internship in Netherlands, LUMC, Molecular Epidemiology, Department of **Medical Statistics and Bioinformatics**

July 2016

Advisor: Dr. Szymon Kielbasa R-Shiny based NGS data quality control and outliers detection toolkit Zeeuw

R NGS software development

Technosphere, Mail.Ru Group

October 2016 - December 2017

Intense two-year program by a leading Russian IT company. Within the program, I participated in differeent ML Kaggle compeetitions, aquired a huge experience in ML and software development, deepened knowledge of C/C++. I quited from the third semester of the program due to job offer from Insilico Medicine company

R NGS software development

learning
August 2017 - October 2017
NDA(:()
ML DNN software development
Developer in InSilico Medicine, department of machine learning
November 2017 - August 2018
I've been working on generating new drugs using deep neural networks
ML DNN drug design software development
Education
Lomonosov Moscow State University, Faculty of Bioengineering and Bioinformatics. 2013 - 2019. specialist degree, GPA - 5/5
Publications
Insights gained from a comprehensive all-against-all transcription factor binding motif benchmarking study
epigenomics visualization regulatory regions
The species Severe acute respiratory syndrome-related coronavirus: classifying 2019-nCoV and naming it SARS-CoV-2
virology R software development
virology R software development H3K4me3, H3K9ac, H3K27ac, H3K27me3 and H3K9me3 Histone Tags Suggest Distinct Regulatory Evolution of Open and Condensed Chromatin Landmarks
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epigenomics machine learning regulatory regions

Retroelement—Linked Transcription Factor Binding Patterns Point to Quickly Developing Molecular Pathways in Human Evolution<Paste>

epigenomics | visualization | regulatory regions

What Do Neighbors Tell About You: The Local Context of Cis-Regulatory Modules Complicates Prediction of Regulatory Variants

machine learning

data leakage

regulatory regions

PQ, a new program for phylogeny reconstruction

phylogeny

Profiling of Human Molecular Pathways Affected by Retrotransposons at the Level of Regulation by Transcription Factor Proteins

epigenomics

visualization

regulatory regions

Additional Experience

Additional courses

I've attend a huge variety of additional courses, including: 1. Categorial grammar 2. Neuroscience and neuromarketing 3. Macromolecular modeling 4. Pattern recognition 5. Mathematical models in biology 6. Mathematical linguistics

ecomomics (linguistics) mathematics

Teacher

I've been trying to take part in teaching since I was a third-year student. Firstly, I've started as teacher assistant,

then — one the course authors, now I'm continue to teach different courses, including those led by me.

Short list of courses I'm taking part in:

- Algorithms
- 2. Machine learning in biology (the course led by me)
- 3. Introduction to Python
- 4. Advanced Python
- 5. Deep learning in science

teaching communication team leader