Daria Nogina

Computational biology student, in love with ML and software engineering

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The online version is available at
https://NoginaDaria.github.io/resume

Residence
Moscow

Github
https://github.com/NoginaDaria

Email
nogina_daria@mail.ru

Python	++++	R	++++	C++	+++	EDA	++++	Classical ML	++++	Neural networks	++
Probability theory	+++	Statistics	++++	Algorythms and DS	+++	Advanced math	++				

A third-year computational biology student with a four-year experience of lab work. I'm a biology competition winner in the past, but my passion today is programming and ML.

Professional Experience

Department of Computational Systems Biology, VIGG RAN

2019 - Current

Advisor: Ivan Kulakovskiy. Development of python/R/bash pipelines for RNA-seq data analysis. Workflow automation and research programming for cancer studies. We investigate RNA-protein interactions through high-throughput data analysis. I have experience in working with RIP-seq, Ribo-seq, and RNA-seq data.

edgeR | DESEQ2 | samtools | STAR

Technosphere, Mail.Ru Group

2020 - Current

Intense one-year program by a leading Russian IT company. Within the program, I participated in Kaggle competitions on NLP and time series forecasting problems. Currently, I'm implementing a multi-threading caching server with my study group.

python3 | C++ | neural networks

Sanford Burnham Prebys Medical Discovery Institute

2019 - Current

Advisor: Dmitry Rodionov. Theme: role of dynamics of the gut microbiome in T1D development. We perform a functional metagenomics study uncovering the phenotypic profile of gut microbiota and the role of it's dynamic in autoimmune diabetes progression.

python3 | qiime2 | time series

Institute for Information Transmission Problems, RAN

2019

Advisors: M.Moldovan, M.Gelfand. Theme: effect of mRNA editing on the translation process in soft-bodied cephalopods. Comparative genomics study involving transcriptomic data analysis.

python3 | samtools

Lomonosov Moscow State University

2017

Advisors: F.Balabin, A.Sveshnikova, F.Ataullakhanov. Theme: dynamics of calcium spiking in human platelets and fish thrombocytes. Wet-lab work involving fluorescent microscopy

wet lab work

Education

Lomonosov Moscow State University, Faculty of Bioengineering and Bioinformatics. 2018-2024

Additional Experience

School of Molecular and Theoretical Biology, Adam Mickiewicz University, Poland

communication programming biology

Information technology and systems, Perm, Russia

poster presentation

CompSysBio, Assois, France

systems biology conference workshop participation

KVIS Invitational science fair, Rayong, Thailand

poster presentation grand prize

Preparing schoolchildren for biological competitions

teaching