

EVGENIIA CHIKINA

I am Bioinformatic Master student who previously graduated from Medical University. I use all of my medical and biological knowledge to combine with the world of computer science. At the moment I have especially good knowledge and skills in analyzing RNA sequencing data. Now and in the future I try to develop and gain knowledge in various aspects of bioinformatics, in particular in such areas as: RNA-seq, epigenetics, multi-omics data analysis.



EDUCATION

Current
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2020



Master degree, Applied Mathematics and Informatics, Bioinformatics and System Biology

ITMO University

📍 Saint-Petersburg, Russia

- Thesis: Metabolic Modules Identification in Single-Cell Data
- Course Project: Identifying Metabolic Modules in TCGA Datasets
- Semester Project: Effects of Background RNA Noise on Differential Expression Results in scRNA-seq

2020
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2014



Specialist degree (with honors), Pediatrician

Saint-Petersburg State Pediatric Medical University

📍 Saint-Petersburg, Russia

- Pediatrician



RESEARCH PROJECTS

Current
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2021



Metabolic Modules Identification in Single-Cell Data

ITMO University

📍 Saint-Petersburg, Russia

- Thesis
- Main goal of the project is to extend applications of the GAM-clustering tool on the *single-cell RNA-seq* data. In order to find optimal **clustering** algorithm performed and analysed multiple clustering strategies for the single-cell RNA-seq data. Used **trajectories** and **gene set enrichment** analysis for biological interpretation of the results. Involved in the *modification of the tool*.

2021
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2021



Identifying Metabolic Modules in TCGA Datasets

ITMO University

📍 Saint-Petersburg, Russia

- Course Project
- With previously developed GAM-clustering algorithm analyzed TCGA datasets (LUSC) - *bulk RNA-seq* data. Identified metabolic modules and performed biological analysis of them. During work was involved in the *modification of the tool and testing*.

View and download this CV with links at <https://github.com/JaneChik/cv> or [here](#)

CONTACT

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🐙 github.com/JaneChik

in [evgenia_chikina](#)

SKILLS

R

Python

Bash

LANGUAGES

Russian

English

German

Made with the R package
[pagedown](#).

The source code is available on
github.com/nstrayer/cv. Modified
source code for this CV is available
[here](#)

Last updated on 2022-06-12.

- 2020
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2020
- **Effects of Background RNA Noise on Differential Expression Results in scRNA-seq**
ITMO University 📍 Saint-Petersburg, Russia
 - Performed standart analysis of the single-cell data with Seurat pipeline and integration of multiple samples using SCTransform intgration. With help of DropletUtils R package identified ambient RNA and tried to estimate the impact of it on the differential expression results.

OTHER PROJECTS

- 2022
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2022
- **DiveR ShinyApp**
Perdana University (Students Project)
 - DiveR is a graphical user interface (GUI)-based web application hosted on R Shiny for the visualization of DiMA results, a tool designed to facilitate the dissection of protein sequence diversity dynamics for viruses.
 - Modifications of ShinyApp scripts
 - <https://github.com/pendy05/DiveR>

ACHIEVEMENTS

- 2021
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2021
- **NGSprint Hackaton**
[NGSchool](#) 📍 Discord, online
 - Project: Data Visualization in Bioinformatics
 - Result: ShinyApp¹
 - Certificate by the link²

2021
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2021

 - **Bioinformatics Contest 2021** 📍 Stepik, Online
 - Participant³

TEACHING EXPERIENCE

- 2020
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2018
- **Chemistry/Biology School Tutor** 📍 Saint-Petersburg, Russia
 - I was teaching 6-9th grade school students chemistry and biology to increase their knowledge in the field and in some cases helped studying for school exams.

COURSES

- 2022
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2022
- **Introduction to Probability and Data with R (en)**
Duke University 📍 Coursera, Online
 - <https://www.coursera.org/account/accomplishments/certificate/RMP3NFYZA5BN>

2020
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2020

 - **Molecular biology of the cell (ru)**
Bioinformatics Institute 📍 Stepik, Online
 - <https://stepik.org/cert/353448>

2019
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2019



Programming in Python (ru)

Bioinformatics Institute

- <https://stepik.org/cert/209363>

📍 Stepik, Online



LINKS

1. • https://github.com/JaneChik/NGSprint_Hackathon-TCGA_RShinyApp
2. • https://drive.google.com/file/d/1PS_joxoZYsNmJzZyqR5xkMqH9ZiE5UrO/view?usp=sharing
3. • https://drive.google.com/file/d/1SEglqYqY7m2tne_XPy9rAscXteFH957N/view?usp=sharing