

# EVGENIIA CHIKINA

I am Bioinformatic Master student who previously graduated from Medical University. I use all 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: data science and machine learning, multi-omics data analysis.



## EDUCATION

Current  
|  
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  
|  
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](https://github.com/JaneChik)

in [evgenia\\_chikina](#)

## SKILLS

R

Python

Linux

Bash

## LANGUAGES

Russian

English

German

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

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

Last updated on 2022-03-22.

- 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.



## ACHIEVEMENTS

- 2021  
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2021
- **NGSprint Hackaton**  
[NGSchool](#) 📍 Discord, online
    - Project: Data Visualization in Bioinformatics
    - Result: ShinyApp<sup>1</sup>
    - Certificate by the link<sup>2</sup>

2021  
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2021

  - **Bioinformatics Contest 2021** 📍 Stepik, Online
    - Participant<sup>3</sup>



## 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 📍 Stepik, Online
    - <https://stepik.org/cert/209363>



## LINKS

1. [https://github.com/JaneChik/NGSprint\\_Hackathon-TCGA\\_RShinyApp](https://github.com/JaneChik/NGSprint_Hackathon-TCGA_RShinyApp)
2. [https://drive.google.com/file/d/1PS\\_joxoZYsNmJzZyqR5xkMqH9ZiE5UrO/view?usp=sharing](https://drive.google.com/file/d/1PS_joxoZYsNmJzZyqR5xkMqH9ZiE5UrO/view?usp=sharing)
3. [https://drive.google.com/file/d/1SEgIqYqY7m2tne\\_XPy9rAscXteFH957N/view?usp=sharing](https://drive.google.com/file/d/1SEgIqYqY7m2tne_XPy9rAscXteFH957N/view?usp=sharing)