

EVGENIIA CHIKINA

I am Bioinformatic Master student who previously graduated from Medical University

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EDUCATION

Current
|
2020

M.S., 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, Medicine, Pediatrics

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*.

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.

CONTACT

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🐙 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. Modified
source code for this CV is available
[here](#)

Last updated on 2022-03-02.



ACHIEVEMENTS

- 2021
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2021
- **NGSprint Hackaton**
[NGSchool](#)
• Project: Data Visualization in Bioinformatics
• Result: ShinyApp¹
📍 Discord, online
 - **Bioinformatics Contest 2021**
• Participant
📍 Stepik, Online



COURSES

- 2020
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2020
- **Molecular biology of the cell (ru)**
Bioinformatics Institute
• <https://stepik.org/cert/353448>
📍 Stepik, Online
 - **Programming in Python (ru)**
Bioinformatics Institute
• <https://stepik.org/cert/209363>
📍 Stepik, Online



LINKS

1. • https://github.com/JaneChik/NGSprint_Hackathon-TCGA_RShinyApp