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: RNAseq, epigenetics, multi-omics data analysis.

View and download this CV with links at https://github.com /JaneChik/cv or here

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 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 RNAseq data. Used trajectories and gene set enrichment analysis for biological interpretation of the results. Involved in the modification of the tool.



Identifying Metabolic Modules in TCGA Datasets

ITMO University

Saint-Petersburg, Russia

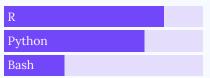
- Course Project
- With previousy developed GAM-clustering algorithm analyzed TCGA datasets (LUSC) - bulk RNA-seq data. Identified metabolic modules and performed biological analysis of them. During work was involved in the modification of the tool and testing.

CONTACT

github.com/JaneChik

in evgenia_chikina

SKILLS



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

Last updated on 2022-06-12.

2020 Effects of Background RNA Noise on Differential Expression Results in scRNA-seq Saint-Petersburg, Russia ITMO University 2020 · 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 DiveR ShinyApp Perdana University (Students Project) 2022 · 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 **NGSprint Hackaton** Object, online NGSchool 2021 • Project: Data Visualization in Bioinformatics • Result: ShinyApp1 • Certificate by the link² 2021 **Bioinformatics Contest 2021** Stepik, Online 2021 • Participant3 ♣ TEACHING EXPERIENCE 2020 Chemistry/Biology School Tutor Saint-Petersburg, Russia 2018 • 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 COURSES 2022 Introduction to Probability and Data with R (en) Ocursera, Online **Duke University** 2022 • https://www.coursera.org/account/accomplishments/certificate/RMP3NFYZA5BN 2020 Molecular biology of the cell (ru) Stepik, Online **Bioinformatics Institute** 2020 • https://stepik.org/cert/353448

Programming in Python (ru)

Bioinformatics Institute

• https://stepik.org/cert/209363



- 1. https://github.com/JaneChik/NGSprint_Hackathon-TCGA_RShinyApp
- 2. https://drive.google.com/file/d/1PS_joxoZYsNmJzZyqR5xkMqH9ZiE5UrO/view?usp=sharing
- $3. \verb| https://drive.google.com/file/d/1SEgIqYqY7m2tne_XPy9rAscXteFH957N/view?usp=sharing| \\$

♀ Stepik, Online