EVGENIIA CHIKINA

I am a bioinformatician with a medical background. I use my medical and biological knowledge to combine with the world of computer science. At the moment, I have particularly good knowledge and skills in analyzing single cell RNA sequencing data.



GENERAL INFORMATION

Date of Birth: 14.10.1996

Age: 26

Citizenship: Russian Federation Place of Birth: Saint-Petersburg,

Russia

Place of Living: Saint-Petersburg,

Russia

Marital Status: Single

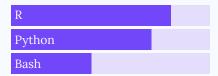
CONTACT

chikina.evgeniia@gmail.com

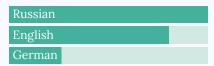
github.com/JaneChik

in evgenia_chikina

SKILLS



LANGUAGES



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

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 2023-09-11.

RESEARCH PROJECTS

2022 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

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.

2020

Effects of Background RNA Noise on Differential Expression Results in scRNA-seq 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

Current 2022

vDiveR 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/vDiveR_RShiny

2021

NGSprint Hackaton

NGSchool

• Warsaw, Poland (online)

- Project: Data Visualization in Bioinformatics
- Result: ShinyApp¹
- Certificate by the link²



CONFERENCES

2023

IMGC 2023

36th International Mammalian Genome Conference

Tsukuba, Japan (online)

- Evgeniia Chikina, Anastasiia Gainullina, Elena Shagimardanova, Alexander Nesmelov, Airat Bilyalov, Oleg Gusev, Roman Romanov. Hypothalamic cell diversity underlying behavioral differences in the American mink (Neogale
- The best virtual trainee poster

2023

MCCMB'23

11th Moscow Conference on Computational Molecular Biology

Moscow, Russia

- Evgeniia Chikina, Victoria Melnikova, Anastasiia Gainullina, Roman A. Romanov. Hypothalamic neurons in type I diabetes at a single-cell resolution. ISBN 978-5-901158-33-3
- Poster

Anniversary Scientific Conference «Nikolay Konstantinovich Koltzov and the Biology of the XXI century» 2022 Moscow, Russia Koltzov Institute of Developmental Biology of Russian Academy of Sciences • Evgeniia Chikina, Anastasiia Gainullina, Roman A. Romanov. Metabolic modules of single cells of the hypothalamus in normal conditions and in metabolic disorders. ISBN 978-5-00204-554-9 Poster 2018 Nationwide scientific forum of students and young scientists with international participation «Student science - 2018» Saint-Petersburg, Russia Saint-Petersburg State Pediatric Medical University · Chikina E.A., Shtukina E.D. Study of microbiological landscape and microorganism susceptibility analysis to antibacterial drugs in the neonatal and premature infants intensive care department, cardiac intensive care department and neonatal pathology department for the period from 2014 to 2017.³ • Pharmacology Section: 3d degree diploma PUBLICATIONS iPSC-Derived Macrophages: The Differentiation Protocol Affects Cell Immune Characteristics and 2022 Differentiation Trajectories. Klepikova, A.; Nenasheva, T.; Sheveleva, O.; Protasova, E.; Antonov, D.; Gainullina, A.; Chikina, E.; Sakovnich, O.; Gerasimova, T.; Nikitina, I.; et al. Int. J. Mol. Sci. 2022, 23, 16087. https://doi.org/10.3390/ijms232416087 **ACHIEVEMENTS** IMGC 2023: Best virtual trainee poster 2023 Tsukuba, Japan (online) 36th International Mammalian Genome Conference **Bioinformatics Contest 2021** 2021 Stepik, Online Participant⁴ **Annual University Olympiad in Pediatrics** 2018 Saint-Petersburg, Russia Saint-Petersburg State Pediatric Medical University • 1st degree diploma University Olympiad in Propaedeutics of Children's Diseases 2017 Saint-Petersburg, Russia Saint-Petersburg State Pediatric Medical University • 2nd degree diploma 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 Introduction to Probability and Data with R (en) 2022 Ocursera, Online **Duke University** https://www.coursera.org/account/accomplishments/certificate/RMP3NFYZA5BN



- 1. https://github.com/JaneChik/NGSprint_Hackathon-TCGA_RShinyApp
- 2. https://drive.google.com/file/d/1PS_joxoZYsNmJzZyqR5xkMqH9ZiE5UrO/view?usp=sharing
- 3. https://www.elibrary.ru/item.asp?id=32783629
- $\textbf{4.} \ \text{https://drive.google.com/file/d/1SEgIqYqY7m2tne_XPy9rAscXteFH957N/view?usp=sharing} \\$