

RASOOL SAGHALEYNI

Göteborg, Sweden | (+46) 72 861 35 59 | rasool.saghaleyni@gmail.com

PROFESSIONAL SUMMARY

Currently, I am a bioinformatics scientist at NBIS, supporting various computational biology projects in Sweden. In this role, I've honed my data analysis skills across multiple bioinformatics disciplines, including drug development, biomarker discovery, and drug mechanisms of action. I excel in presenting analysis results clearly to diverse audiences. My experience spans omics integration, proteomics analysis, drug target discovery, single-cell transcriptomics, machine learning, and protein design. I'm eager to apply these skills to advance biopharmaceutical research at NEC Oncoimmunity. I'm proficient in Python and R, experienced in working with large-scale datasets, and well-versed in research reproducibility and data management. Effective communication is a priority, and I've successfully engaged with various stakeholders, ensuring clear understanding and collaboration. I employ version control and custom pipelines for accurate and reproducible results. Beyond my professional work, I'm passionate about the AddCell project, which involves developing a natural language processing algorithm to collect information on CRISPR-edited cell lines from scholarly articles. This project aims to foster data sharing among researchers globally. I'm eager to contribute my enthusiasm and expertise to NEC Oncoimmunity, furthering drug discovery and omics data analysis. Thank you for considering my application, and I look forward to discussing my qualifications and potential contributions to NEC Oncoimmunity team.

EDUCATION

Ph.D., Systems Biology, Chalmers University of Technology, Gothenburg, Sweden

Aug 2016 - 30 Aug 2021

Thesis title: Systems Biology of Protein Secretion in Human Cells.

Master of Science, Molecular and Cellular Biology, National Institute of Genetic Engineering and Biotechnology (NIGEB), Tehran, Iran 2011 - 2014

Bachelor of Science, Molecular and Cellular Biology, Isfahan — Iran 2006 - 2010

EMPLOYMENT HISTORY

National Bioinformatics Infrastructure Sweden (NBIS), Gothenburg, Sweden —
Computational biologist Sep 2022 - present

Chalmers University of Technology, Gothenburg, Sweden — postdoc Sep 2021 - Sep 2022

AryoGen Pharmed, Tehran - Iran — Analytical Method Development research engineer Jan 2016 - Apr 2016

Iranian Blood Research and Fractionation (IBRF), Tehran - Iran — Cell culture research engineer May 2015 - Dec 2015

Institute for Research in Fundamental Sciences (IPM), Tehran - Iran — Research Assistant
Oct 2014 - Apr 2015

CORE SKILLS

Extensive experience in analyzing complex omics datasets: transcriptome (bulk/single), proteome, metabolome

Extensive experience in different methods for functional annotation and pathway analysis

Extensive experience in multi-omics integrative analysis

Extensive experience in R/Python/Unix programming for bioinformatics

Extensive experience in data visualization

Experienced in using machine learning approaches for analyzing big data

Experienced in using high-performance computing platforms

Good knowledge of biostatistics for big data analysis

Good knowledge of good programming practices

Good knowledge about reproducibility in research paradigms and tools: git, conda

Good knowledge about scalability paradigm and tools: snakemake, Nextflow

HONORS & AWARDS

- 2021 **Best oral presentation**, Quantitative Modelling of Cell Metabolism Conference, Copenhagen 2021
- 2015 **Best presentation**, The second Iranian conference on systems biology
- 2014 **Ranked in the top 5%**, M.S nationwide entrance exam of Iranian universities with nearly 20000 participants
- 2010 **Ranked in the top 5%**, B.S. nationwide entrance exam of Iranian universities with nearly 400000
- 2009 **Ranked 1st**, high school diploma

LANGUAGES

English: Working Proficiency

Swedish: Intermediate (B2)