

RASOOL SAGHALEYNI

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PROFESSIONAL SUMMARY

Currently, I serve as 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. I excel in presenting analysis results clearly to diverse audiences. My experience spans omics integration, drug target discovery, machine learning, and simulating proteins metabolism and structure. I'm eager to apply these skills to advance biopharmaceutical research. I have a good knowledge of coding in Python and R, am 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 as a hobby, 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 in this field globally.

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 poster 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

LANGUAGES

English: Working Proficiency
Swedish: Intermediate (B2)
Persian: Native