

Jamshed S Gill



I am passionate and responsible cand.scient in bioinformatics with extensive research experience. A MSc graduate from UCPH with relevant experience at the Danish Headache Centre and presently working within health informatics to understand the importance of various health markers for eg, heart rate variability, sleep and stress on our disease risks. I have a strong interest to learn and apply my skills in Health and Life Science related research by using data analytics and digitalization.

Amsterdamvej 1, 2.tv

København K, 2300

+45-91740135

jpsg@di.ku.dk

jamshed21@gmail.com

[LinkedIn](#)

[GitHub](#)

www.qol.diku.dk

Nationality: Indian

EDUCATION

University of Copenhagen, Denmark - MSc in Bioinformatics
September 2015 - February 2018

Major courses: Data Analysis Methods, Linux and Python Programming, Statistics for Bioinformatics.

SRM University, India - B.Tech in Bioinformatics Engineering
July 2010 - July 2014

Major courses: Bioinformatics Algorithms, Systems Biology, Perl Programming, BioPython.

ACADEMIC RESEARCH WORK

Quality of Life (QoL Lab) at the **University of Copenhagen**, Dept of Computer Science Copenhagen, Denmark - Research Assistant
September 2018 - Present

- Aiding to the research on behaviour related risk models for diabetes, cardiovascular and stress-related disorders.
- **Time - series data** format collected using wearables, mobile devices, observational methods and databases.
- Data modelling and analysis leveraging **machine learning approaches** and **traditional statistics**.

Danish Headache Center, Glostrup, Denmark - MSc. Thesis
February 2017 - August 2017

Detecting differentially expressed genes and pathways between rats from two different suppliers.

- Differential Expression of RNA-Sequencing data for finding genetic expression differences between rat suppliers.
- Corrected for batch and supplier effect that plays a crucial role in the overall construction of an experimental model.
- **R statistical program** used for analysis and **Perl** for building Pipeline.

SKILLS

Programming: R programming, Python, Perl, Bash scripting, R Markdown, knitr, LaTeX, Shiny, Unix/Linux command line environments, git, GitHub, Pandas and Exploratory data analysis (EDA), Statistics toolkits

Big Databases: Computerome and Statistics Denmark

Bioinformatics: Next Generation Sequencing (NGS) data analysis, Sequence Alignment (STAR), Differential Expression Analysis (DESeq2), Principal component analysis (PCA), Bedtools, Bioconductor, tidyverse

Interpersonal: Critical/Analytical Thinking, Quantitative research, Teamwork, Team leadership, Public Speaking, Problem Solving

AWARDS

Winner LEO Pharma Open Innovation eczema hackathon in November 2017.

RTH, Copenhagen, Denmark - Summer Research

April 2016 - August 2016

Integration of short-read next generation sequencing (NGS) and RNA structure prediction.

- Research Project was done at the Center for non-coding RNA in Technology and Health (RTH).
- Predicting putative mature miRNAs from RNAcentral Database.
- Bash scripting and Bedtools used for analysis.

SRM University, India - B.Tech Thesis

January 2014 - June 2014

16S rRNA Bacterial Database: Comparative analysis of 16S rRNA gene sequences from Human Oral Microbiome Population.

- Multiple sequence alignments found out conserved regions in all 834 bacterial rDNA sequences.
- On the whole, the database provides structural, taxonomic, RNA Secondary structure information and Ribosomal family.

EXTRA-CURRICULAR ACTIVITIES

Synapse Biobusiness Summer School, Copenhagen, Denmark

August 2018 (1 month)

Poster Presentation

Title: Comparison of microRNA annotation in miRBase and RNAcentral

2nd Annual Danish Bioinformatics Conference, Denmark

August 2016

2nd Annual Meeting on RNA, Copenhagen, Denmark

October 2016

VOLUNTEERING

Volunteer, "TechBBQ", "Nordic.AI Health & AI Summit 2018", Copenhagen

September 2018

Treasurer, CBioVikings regional student group, Denmark

May 2016 - May 2017

CBioVikings is a not-for-profit student organization where my role was to manage finances as well as to organize and host events.

Student Mentor, Faculty of Science, University of Copenhagen, Denmark

December 2015 - March 2017

The organization is a volunteer-based student support program. As a mentor, my responsibility was to help accommodate and integrate students in a new environment.

LANGUAGES

English (Native), Hindi (Native), Punjabi (Native), Danish (Beginner)

RELEVANT REFERENCES

Dr. Katarzyna Wac
Associate Professor
(Current research supervisor)

QoL Lab, Department of
Computer Science,
University of
Copenhagen, Denmark

wac@di.ku.dk

Thomas Hansen -
Research Leader
(Scientific co-supervisor)

Danish Headache
Center.

thomas.hansen@regionh.dk

+45-22825659

Stefan E Seemann - Asst
Prof, Bioinformatics at
University of
Copenhagen (Project
supervisor)

Center for non-coding
RNA in technology and
Health (RTH)

seemann@rth.dk

+45-35333058

Thorsten Thormann-
Research Vice-President
(Career Mentor)

LEO Pharma

TTHDK@leo-pharma.com

+45-40748244