

# Jamshed S Gill



Passionate and responsible bioinformatician with extensive research experience. A MSc graduate from KU with relevant experience at the Danish Headache Centre and presently working with health informatics to understand the importance of various sleeping patterns on our lifestyle. I have a strong interest to learn and apply my skills in the development of Health and Life Science Industries by using data analytics and digitalization.

## 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

**QOL Labs at University of Copenhagen, Copenhagen, Denmark** -  
Affiliated Research Assistant  
August 2018 - Present

- Aiding to the research of various sleeping patterns and effects of it on obesity.
- The data is in **time- series format** collected using wearables, mobile devices and observational methods.
- Data modelling and analysis will be done using **machine learning approaches** and **traditional statistics**. [Link](#)

**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.
- Correcting for batch and supplier effect plays a crucial role in the overall construction of an experimental model.
- **R statistical programming** used analysis and **Perl** for building Pipeline. [Link](#)

**RTH, Copenhagen, Denmark** - Summer Research

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Nationality: Indian

## SKILLS

**Programming:** R programming, Python, Perl, Bash scripting, R Markdown, knitr, LaTeX, Shiny, Unix/Linux command line environments, git, GitHub and Pandas

**Bioinformatics:** NGS data analysis, Sequence Alignment (STAR), Differential Expression Analysis (DESeq2), Systems Biology (GOSeq, KEGG), Principal component analysis (PCA), Bedtools, Bioconductor, tidyverse

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

## AWARDS

Winner LEO Pharma Open Innovation eczema hackathon in November 2017.

## LANGUAGES

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

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).
- Predict putative mature miRNAs from RNAcentral Database.
- Bash scripting and Bedtools used for analysis. [Link](#)

**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 alignment found out conserved regions in all 834 bacterial rDNA sequences.
- On whole, the database provided structural, taxonomic, RNA Secondary structure information and Ribosomal family.

## EXTRA-CURRICULAR ACTIVITIES

**Synapse Biobusiness Summer School**, Copenhagen, Denmark  
August 2018

### 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

## VOLUNTEER EXPERIENCES

**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 finance as well as to organize and host events.

**Student Mentor**, 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 in settling students in a new environment.

## ACTIVITIES

Swimming, Reading, swing dance, Bhangra (folk dance) and Google local guide

## RELEVANT REFERENCES

Dr. Katarzyna Wac  
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(Current research supervisor)

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