

Jamshed S Gill



Passionate and responsible bioinformatician with extensive research experience. A recent MSc graduate from KU with relevant experience at the Danish Headache Centre. Having strong interest in driving digital innovation/transformation change in Life Sciences and Healthcare.

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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

Danish Headache Center, Glostrup, Denmark - MSc. Thesis

FEBRUARY 2017 - AUGUST 2017

MSc. Thesis: 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.

RTH, Copenhagen, Denmark - Summer Research

APRIL 2016 - AUGUST 2016

Summer Research: 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.

SKILLS

Programming: R programming, Python, Perl, Bash scripting, R Markdown, Unix/Linux command line environments, git and github

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

AWARDS

Winner LEO Pharma Open Innovation eczema hackathon in November 2017.

LANGUAGES

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

ACTIVITIES

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

- Bash scripting and Bedtools used for analysis.

SRM University, India - B.Tech Thesis

JANUARY 2014 - JUNE 2014

BTech Thesis: 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

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

Poster Presentation

Title: Cathechin: A potential biochemical for prevention of Cancer

International Conference On Next Generation Bioinformatics, Chennai, India.

FEBRUARY 2013

VOLUNTEER EXPERIENCES

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 new environment.

RELEVANT REFERENCES

Lisette Kogelman - Lead Bioinformatics Scientist (Master Thesis supervisor)

Danish Headache Center

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Thomas Hansen - Research Leader (Scientific co-supervisor)

Danish Headache Center.

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

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

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Thorsten Thormann- Research Vice-President (Career Mentor)

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