



Shahroz Rahman

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ABOUT ME

In terms of my professional skills, I have extensive experience in various computational and bioinformatics techniques, including command-line bioinformatics, omics data analysis, docking, genome-wide analysis, phylogenetics, and more. I am proficient in programming languages, particularly Python, which is widely used in bioinformatics for data processing. Additionally, I have hands-on experience with various scientific procedures such as PCR, DNA and RNA extraction, microbial culturing, gel electrophoresis, and other methods. In addition to my expertise in computational and bioinformatics techniques, I have also completed several bioinformatics-related projects. One notable project was the development of Bioinformatics.pk, a website dedicated to promoting the study and understanding of bioinformatics in Pakistan. I have also worked on a project for recording plant phenotypic variations using the python programming language. I have also published some courses about bioinformatics on Udemy.

My long-term goal is to continuously learn and advance in my career.

EDUCATION AND TRAINING

BS Bioinformatics (BS honors)

Government College University Faisalabad [2019 – 2023]

Address: 38000 Faisalabad (Pakistan)

Website: <https://gcuf.edu.pk/>

Field(s) of study: Bioinformatics | Phylogenetics | Functional Genomics

Intermediate (Pre-medical)

Board of intermediate and secondary education [2017 – 2019]

Address: 38000 Faisalabad

Website: <http://www.bisefsd.edu.pk/>

WORKSHOPS AND TRAININGS

NGS Data Analysis: Basics to Advances

[13/12/2022 – 15/12/2022]

I participated as an invited guest speaker and organizer in a three days hands on training on **NGS data analysis**, held at and organized by the department of Bioinformatics and Biotechnology at GCUF.

Link: <https://www.bioinformatics.pk/event/next-generation-sequencing-data-analysis-using-command-line-and-graphical-user-interface/>

Bioinformatics Command Line training workshop

[07/10/2022 – 09/10/2022]

I participated in a three days hands on training program on the topic of "**Bioinformatics Command Line training workshop**" which was conducted online, and was organized by **bioinformatics.pk**.

Link: <https://www.bioinformatics.pk/event/command-line-bioinformatics-workshop/>

Hands-on Bioinformatics Starter Training Program

[29/08/2022 – 31/08/2022]

I have participated as a speaker and organizer in a three-day "**Hands-on bioinformatics starter training program**" workshop, which was held online and was organized by **bioinformatics.pk**.

Link: <https://www.bioinformatics.pk/event/bioinformatics-starter-training/>

A guide to analysing binding sites in protein structures

[30/06/2021]

I participated in an online lecture offered by **EMBL-EBI**, where I gained an understanding of how to interpret ligand binding sites in protein structures. The lecture discussed various tools that are available at the Protein Data Bank in Europe (PDBe) and the PDBe Knowledge Base (PDBE-KB) for analyzing ligand binding pockets and interactions.

Link: <https://www.ebi.ac.uk/training/events/guide-analysing-binding-sites-protein-structures/>

A guide to multiomics pathway analysis

[02/06/2021]

I participated in a webinar hosted by **EMBL-EBI**. In the webinar, the presenter discussed the methods for performing comparative multiomics pathway analyses using the ReactomeGSA pathway analysis system. The presenter demonstrated the comparison of independent studies that employed different 'omics approaches, as well as different 'omics measurements from the same study. Additionally, the presenter highlighted simple-to-use methods for integrating public datasets into one's own analysis. Lastly, the presenter showed how to use the ReactomeGSA R package to improve the annotations of single-cell RNAseq data. The presenter used both Reactome's web interface and the ReactomeGSA Bioconductor R package during the webinar.

Link: <https://www.ebi.ac.uk/training/events/guide-multi-omics-pathway-analysis/>

WORK EXPERIENCE

Research Assistant

Government College University Faisalabad [2021 – Current]

City: Faisalabad

Country: Pakistan

As a Research Assistant in the **Functional Genomics and Tissue Culture Lab** at the Department of **Bioinformatics and Biotechnology** at **GCUF**, my duties include conducting data analysis, performing Linux operations, engaging in bioinformatics analysis, and providing guidance to new students.

Founder

bioinformatics.pk [2020 – 2023]

City: Faisalabad

Country: Pakistan

Link: <https://www.bioinformatics.pk/>

As the founder of **bioinformatics.pk**, the primary responsibility was to ensure the overall success and growth of the website. This involve setting and achieving business goals, developing and implementing strategies for growth and revenue generation, and managing the day-to-day operations of the company. As the founder, it was also important to be a strong leader and communicator, and to be able to inspire and motivate the team to work towards the company's goals.

Founder and CEO

webstich.com [2021 – 2023]

City: Islamabad

Country: Pakistan

Link: <https://www.webstich.com/>

As the leader of webstich, a tech solutions company, I was responsible for making decisions on a daily basis that will enhance the success of our business and ensure that our clients receive the best possible service. Throughout our history, we had consistently met the needs of a diverse range of clients and earned a reputation for excellence.

Bioinformatics Blogger

Medium.com [2022 – Current]

City: Faisalabad

Country: Pakistan

Link: <https://medium.com/@shahrozrahman>

As a blogger Researching and writing blog posts on a variety of topics related to bioinformatics, including new technologies, software tools, and scientific research in the field. Collaborating with subject matter experts to ensure the accuracy and quality of content. Managing the editorial calendar and ensuring that content is published on a regular basis.

INTERNSHIPS

Internship at Functional Genomics and Tissue Culture Lab

[2021 – Current]

During the course of the internship, I have demonstrated proficiency in various techniques including PCR, gel electrophoresis, genome-wide identification of gene families, NGS data analysis, variant calling, and other projects. Specifically, I have contributed in developing a program for capturing pictures of the plant phenotypic variations and using machine learning approach to analyze the captured photos.

Internship at the Oil Technology Laboratory of Oilseed Research Institute.

[19/11/2022 – 21/12/2022]

I gained a wealth of knowledge and developed new skills during my internship at this esteemed institution the "Oilseed Research Institute" at "Ayub Agriculture Research Institute, Faisalabad". Some of the techniques I learned include solvent extraction for extracting oils from major oilseed crops, as well as infrared reflectance spectroscopy.

Link: <https://mega.nz/file/sFkBjT7l#qph8dZ05KMZj0wQEI9vAZmEsJSQMAItiUFmZ-fjqfni>

PUBLICATIONS

[Genome-wide exploration of bZIP transcription factors and their contribution to alkali stress response in Helianthus annuus](#)

[2023]

The basic leucine zipper (bZIP) gene family is one of the largest transcription factors family in plants. These are involved in various biological processes including the regulation of light signaling, seed maturation, flower development, and the response to both biotic and abiotic stresses.

DIGITAL SKILLS

Bioinformatics Skills

Bioinformatics software / Dry Lab(Bioinformatics)-BLAST,FASTA.(Softwares)-(Open Babel,Modeller 9.20), (Genesis) / Structural bioinformatics / Bioinformatics Tools for Multiple Sequence Alignment / Bioinformatics (Experience with BLAST, Clustal, Clone manager, MEGA, BioEdit)

Programming Skills

Visual Studio, Visual Studio Code / R - Programming / R studio / Python programming / HTML, CSS and JavaScript / notepad++

LANGUAGE SKILLS

Mother tongue(s): **Urdu** | **Panjabi; Punjabi**

Other language(s):

English

LISTENING C2 READING C2 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

RECOMMENDATIONS

Supervisor

Name: Dr. Farrukh Azeem

Phone number: (+92) 3337704350

Email: farrukh@gcuf.edu.pk

Dr. Farrukh Azem, an Associate Professor at GCUF, has recommended me. He is also my supervisor at the **Functional Genomics and Tissue Culture Lab** in the Department of Bioinformatics and Biotechnology at GCUF.

Link: <https://mega.nz/file/AIEE0TxK#Q1-yb9Z3Ls5psZPM3kXA5AjeelWAbOZ2iNI1eNoerpY>

Professor

Name: Dr. Muhammad Tahir ul Qamar

Phone number: (+92) 3336601457

Email: tahirulqamar@gcuf.edu.pk

My professor, **Dr. Tahir ul Qamar**, who is currently teaching my class, has recommended me. He has been aware of me for the past two years.

Link: <https://mega.nz/file/xdckUJgY#abib-V7FfMnlpUXVk9bNbCmHH5ETE4wjyKNNFeey28Jo>

Thank you for taking the time to review my CV. I believe my skills and experience align well with the requirements of this opportunity. My background and abilities have prepared me to be a successful member of your team. I am available at shahrozrahman.me@gmail.com for any further discussion or questions. I look forward to the opportunity to contribute my skills and experience to your organization.

Faisalabad, Punjab, Pakistan, 02/09/2023



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