

/ CONTACT DETAILS

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HAMZA ABDULLAH

INTJ by personality type, and a Polymath in nature.

SUMMARY

I like to think, process and design new big ideas which could be a next big thing. I'm interested mainly in exponential technology especially Biotech & Genomics research and partially in Space technology & energy.

Associate member for The 50 Percent
in partnership with the Club of Rome &
Penn State University Sustainability
Institute.

/ CERTIFICATIONS

Foundations of Humane Technology

Center for Humane Technology (Oct 2021)

Graduate Certificate in Introduction to Rocket and Satellite Engineering

International Academy of Space Law (April 2020)

- Understanding Multiple Sclerosis (MS), University of Tasmania (September, 2021)
- Foundations of Public Health Practice Specialisation, Imperial College London (May 20)
- Global Disease Masterclass, Imperial College London (June 20)
- Health Systems Development Specialisation, Imperial College London (May 20)
- Healthcare Organization Operations Specialisation, Rutgers the State University of New Jersey (June 20)
- The Clinical Application and Implications of Comprehensive Genomic Profiling to Outcomes, Medscape (2020)
- Agile Development & Digital Product Management Specialisation, University of Virginia (May - June 20)
- Professional diploma of Web design & development, UET, Lahore (2016)
- Professional diploma of Android development & Game design, UET, Lahore (2016)

/ WORK EXPERIENCE

>> Research Analyst

AGCT GENOMICS (PVT) LTD. | 2019 to present

At this position, I came across with blend of responsibilities of handling teams, research projects, and liaison.

>> Cytogeneticist | Genetic counselor

Children Hospital & Institute of Child health, Lahore | Jan, 2019 to May 2019

I was responsible for Cytogenetic testing and reporting Karyotyping i.e. Cell harvesting, Cell culturing, Slide making and staining and analysis on Cannon karyotyping system and Patient genetic consultation with different cytogenetic & rare diseases.

>> Editor & Writer

The 21st Century & Ideoloji (Online Publications) | 2018 to Present

I write on diverse topics ranging from Technology, Medicine, Biotechnology, Philosophy and nature.

- 10,000+ reads monthly
- Articles featured by Medium.com

Link: <https://medium.com/the-21st-century>
<https://medium.com/ideoloji>

/ EDUCATION HISTORY

>> Virtual University of Pakistan

BS in Bioinformatics | (2015-2019) Graduated

> Majors in Genetics, Bioinformatics

> Wet lab (Molecular biology, genetics) and Dry lab (Bioinformatics)

> Projects:

- Exomic sequence analysis of genes causing night blindness in Punjab cohort (thesis project)
- Mutational analysis of gene causing Sirenomelia in Pakistani patients
- Investigation of genes causing autosomal recessive blindness

/ SKILLS

Computing:

AI & Machine learning, Web & Graphics designing, Microsoft Office 19, Technical writing

Medical:

Molecular biology, Genetics, Genetic testing & Counseling, Genomics, Clinical research and Healthcare management

Business:

Human resource, Team management & Leadership, Capacity building, Entrepreneurship

/ HANDS-ON

Computing:

Python, TensorFlow, Keras, Pytorch, OpenCV, SPSS, Adobe Photoshop, Canva, Vegas Pro, Camtasia, WordPress, Shopify, Bootstrap, Cpanel, Google Adsense, Google analytics, Facebook Ads, Blogging & e-journalism

Bioinformatics & Molecular Biology:

DNA extraction, PCR, Gel electrophoresis, SDS PAGE, NanoDrop, Spectrophotometer, Canon Karyotyping system, Cell culture & harvesting, BLAST, Protein docking, PolyPhred, MEGAX, DNASP, MAFFT, MOTIF, Phylogeny, Dotplot, Bioconductor, SWISS-PDB, NCBI, PubMed

/ PROJECTS

- Evolutionary analysis of more than 1000 covid genomes (Project)
- Probiotic based hospital acquired infections (HAIs)
- Repurposing beta-blockers towards the micro-environment of hematologic malignancies
- Cytogenetic analysis, frequency and prevalence studies of Ambiguous genitalia and congenital adrenal hyperplasia (CAH) in Punjab cohort (Research report)
- Pneumonia detection using convolutional neural network (CNN)
- Brain MRI segmentation and tumor detection
- Human activity recognition using keras and tensor flow (using WISDM data set)
- Digital commerce mobile application accessibility among blind and visually impaired people

/ CONFERENCES & WORKSHOPS

- 9th Pan Arab Human Genetics Conference, Centre for Arab Genomic Studies (Dec, 2021) 6 CME Hours Approval#211201
- 1st International Conference of Bioinformatics and Computational Methods in Post Genomic Era, VU, Pakistan (Nov, 2021)
- Seminar on Chinese Economic Development Model and CPEC, ORIC, VU (August, 2021)
- 9th INTERAMERICAN ONCOLOGY CONFERENCE "Current status and future of anti-cancer therapies" (July 2021)
- Big Data in Genomics (1 CME credit) **Centre of Arab Genomic studies**, (June, 2021)
- Al Balagh 2nd International Online Conference On The Fiqh of Medicine (2021)
- Dual-use research concern (DURC) workshop (Organized by ARRTI at University of Lethbridge & Synbio Canada, 2021)
- Population genetics (1 CME credit) **Centre of Arab Genomic studies**, (April, 2021)
- International Conference titled "Therapeutic Importance of Traditional Medicines" (2018)
- Hands on Bioinformatics tools workshop (2019)
- Workshop On CRISPR/Cas Genome Editing Technology (2019)
- 23rd National Health Sciences Research Symposium (Feb, 2021)

**I'M FUTURISTICALLY OPTIMISTIC
IN PAVING A ROAD FOR
BECOMING A MORE
SUSTAINABLE, PEACEFUL, NATURE
FRIENDLY & UTOPIAN
CIVILIZATION, TO EVENTUALLY
BECOMING A TYPE-1 ADVANCED
HUMAN CIVILIZATION OR AT
LEAST CLOSE TO IT.**