

Anuradha Bhardwaj

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About Me: I am a self-motivated professional with proven teaching, guidance and counseling skills. Possess a strong track record in improving test scores and teaching effectively. Ability to be a team player and resolve problems and conflicts professionally. Have the ability to communicate complex information in a simple and entertaining manner. Looking to contribute my knowledge and skills in an organization that offers a genuine opportunity for career progression.

Bioinformatics Skills

- ✓ Software development skills and experience.
- ✓ Next Generation sequencing technology, tool usage, and data analysis
- ✓ Understanding & usage of biostatistics and bioinformatics algorithms
- ✓ Scripting experience with Python, R, Perl and MATLAB
- ✓ Innovates on new methods / processes to extract actionable insight from large genomic datasets and contribute to the launch of new products
- ✓ Develops machine learning and data-driven analyses using Artificial Intelligence
- ✓ Manage and query data in SQL database
- ✓ Microarray data analysis and NGS sequencing pipelines
- ✓ Network Analysis, drug designing, sequence analysis, structural analysis and phylogenetics.

Professional Experience

- **Working as Senior Research Fellow in Gautam Budha University (Aug 2018 – present)**
We are working to develop a novel machine learning based tool for precise genome editing (CRISPR & TALENs)
Analyzing vast high-throughput sequence data to develop novel rule sets and statistical algorithms.
To train our models using machine learning so as to maximize the precise on-targets and minimize the off-targets and validate through wet lab experiments
- **Worked as a Research Fellow at the Central University of Rajasthan (Jul-Dec 2017)**
Performed investigation of bio-synthesized particles from medicinal plants
Exploring the anticancer properties of the plant derived components and preparing database
Developing statistical analysis strategies to evaluate and analyze our research data
Structural and network analysis of the identified anticancer molecules to understand their mechanism of action.

- Worked as an Assistant Professor (Biotechnology & Bioinformatics) at Jaipur National University, Jaipur (Feb 2016- Jul 2017)**
 Conducting classes for B.Tech, M.Tech and M.Sc students, preparing material and teaching different research-oriented subjects.
 Focusing on hands-on learning and scenario-based teaching and learning.
 Applying individualized teaching techniques to accommodate students with special needs and disabilities.
 Implementing the wide range of techniques to promote scientific thinking and scientific skills.
 Regularly coordinating for examination reforms, setting up the student - centric questions paper and providing solutions.
 Organizing different university and department level events, served on academic and administrative responsibilities.
- Worked as a Research Biologist at NxGenBio, Delhi (July 2015-Jan2016)**
 Preparing concise presentations of computational results.
 Working with the bioinformatics team to integrate different types of genomics.
 Performing robust data quality control and validation which helps the organization to make progress.
 Developing expertise in various types of sequencing data analysis (e.g. RNA-seq, siRNA-seq, chip-seq, ATAC - seq, sequencing of long reads).
 Working closely with bench scientists to understand and help accomplish their research goals.

Project Experience

Industrial Training (2015)

- Next Generation Sequencing – Metagenomics approach.
- Six months research training program at NxGenBio, New Delhi funded by BCIL-BIITP, India.

Master's Research Work (2014-15)

- Construction of Gene Regulatory Network for c-Kit mediated proliferation in hematopoietic stem cells using system biology approach.
- One year project at Defense Research and Development Organization(DRDO), INMAS, Ministry of Defense, New Delhi, India

PG Diploma Research work (2013)

- Comparative analysis of different proteins responsible for colour blindness in different organisms.
- Two months Research project at IBRI, Noida, Uttar Pradesh, Delhi, India.

Undergraduate Training (2011-12)

- Introduction to Linear Accelerators –LINAC
Two Months training program at Rajiv Gandhi Cancer Hospital, New Delhi,
- Introduction to clinical biochemistry
Two months training program at Mata Chanan Devi Hospital, New Delhi, India.

Awards/ Achievements

- Visited Germany in the month of Nov,2016 for the completely sponsored IMPRS recruitment program.
- Second position in Banasthali University in M.Tech Bioinformatics.
- Third position in Banasthali University in PG Diploma in Bioinformatics.
- First position in B.A.Sc. (H) Instrumentation, Bhaskaracharya College of Applied Sciences, University of Delhi.
- Awarded BCIL (DST, Government of India) – BIITP for six months in 2015 with the stipend.
- Participated in poster (Total Artificial Heart) presentation in National Seminar & conference organized by Banasthali University.
- First Prize in Swami Vivekananda Essay Competition.
- NCC 'A' Certificate & Certificate of Merit
- Secured First position in Pareeksha - Prarambhik in Bharatanatyam by Akhil Bharatiya Gandharva Mahavidyalaya Mandal, Mumbai.
- Participated in 12th National Youth Festival at Pune.

Educational Qualification

Name of the Examination/ Degree	University/ Board	Division/%	Field of study / Subjects	Place/ Country
Certificate Course	Banasthali University	First/ 78	Statistical Techniques & Applications	Rajasthan/ India
M.Tech	Banasthali University	First/ 78	Bioinformatics	Rajasthan/ India
PG Diploma	Banasthali University	First/74	Bioinformatics	Rajasthan/ India
B.A.Sc (H)	University of Delhi	First/ 67	Instrumentation	New Delhi/India
Senior Secondary	C.B.S.E	First/67	PCBME	New Delhi/ India
Secondary	C.B.S.E	First/ 81	BASIC	New Delhi/India

Interests / Hobbies

Listening to Music, Painting, Dancing, Reading & Writing Articles, Helping People.

Personal Details

Husband : Mr. Mohit Vats
DateofBirth :04-Jul-1990
Languages Known :English,Hindi,Sanskrit
Permanent Address :House No. 391, KG-2 Block, Vikas Puri, New Delhi -110018

I hereby declare that the details furnished above are true and correct to the best of my knowledge and belief.

(Anuradha Bhardwaj)