CURRICULUM VITAE

Shaurya Jauhari, PhD
Consultant, Responsible AI Office,
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Educational Qualifications:

- **Doctor of Philosophy (Ph.D.)**
University	: Jamia Millia Islamia, New Delhi, India.
Supervisor	: Prof. (Dr.) S.A.M. Rizvi.
Year	: 2018
Title	: **Exegesis of Gene Expression**

- **Master of Computer Applications (M.C.A.)**
University	: Uttar Pradesh Technical University (U.P.T.U.)
Year	: 2009
Subject(s)	: Computer Applications

- **Bachelor of Science (B.Sc.)**
University	: University of Lucknow
Year	: 2005
Subject(s)	: Mathematics, Statistics, and Computer Applications.

Research Interests:

- Discipline : Bioinformatics, Biostatistics, Systems Oncology.
- Area : Enrichment Analysis, Gene Expression Data Analysis, Machine Learning, Mathematical Modeling.

Experience:

- **Infosys Ltd.**

  Consultant - Responsible AI (February 2025 - Present)

  Involved with red teaming contemporary AI models for gauging their suitability of application, in line with prescribed ethics, policies, and governance frameworks. Managing a team of developers to drive innovation in Agentic AI security with prescribed threat detection models. The effort includes curating IP assets (patents, publications) and internal communications.

  Senior Analyst - ETA (October 2021 – February 2025)

  Involved in training fresh hires and middle-level management workforce, for technologically enabling them for current and future client programs. Also, closely working at tandem, with ongoing site-independent development projects on Big Data stream; currently affiliated with the Big Data and Business Intelligence track.

- **Guangzhou Medical University**

  Postdoctoral Fellow (September 2018 – April 2021)

  Gene Set Enrichment Analysis of the genomic regions, from the perspective of 3D genome organization.

- **Freedom Employability Academy**

  Student Mentor (May 2019 - Present)

  Volunteering, vide an interaction schedule, with a group of underprivileged, yet ambitious individuals that want to stay persistent with scaling their careers.

- **CSIR- National Botanical Research Institute**

  Research Associate (June 2018 – August 2018)

  Computational expounding of nucleosomal remodeling with accord to transcriptional profile in Arabidopsis thaliana.

- **Shri Ramswaroop Memorial University**

  Visiting Faculty (January 2018 – May 2018)

  Delivering lectures on the Theory of Automata.

- **Institute of Stem Cell Biology and Regenerative Medicine, Tata Institute of Fundamental Research.**

  Post-Doctoral Fellow (June 2017 – November 2017)

  RNA-seq data analysis as outputted by the Next Generation Sequencing technologies.

- **AtSa Technologies Pvt. Ltd.**

  Software Engineer (January 2010 – December 2011)

  Designed and wrote program code for supporting web applications and implementing various web-based services in the new and existing websites.

- **M/S Ellicon**

  Network Assistant (May 2009 – January 2010)

  I have closely worked with experienced networking professionals, at the client side, to help resolve networking problems. I was also part of the network setup and establishment of Intranet.

Workshops and Conferences:

- **Computational Genomics & Its Applications to Plant Biology**
  (14, 15 March 2013) Organized by DISC, NIPGR, New Delhi.

- **Current Challenges on Bioinformatics in Biotechnology**
  (9, 10 April 2013) Organized by TERI University, New Delhi.

- **References Management in Research**
  (26 May 2015) Organized by Jamia Millia Islamia, New Delhi.

- **Exploratory Data Analysis (EDA) with R**

  (31 October 2015) Organized by Sharda University, Greater Noida.

- **7th DBT-BIF National Workshop on Translational Bioinformatics**

  (15-16 February 2017) Organized by Jamia Millia Islamia, New Delhi.

- **11th International Conference on Stem Cells and Regenerative Medicine/ 6th Annual Conference of Chinese Society for Regenerative Cell Biology**

  (26-28 November 2018) Organized by CAS-GIBH.

Achievements:

- **China Postdoctoral Science Foundation (CPSF) 2019 Grant awardee** (No. 2019M652847).
- **Databricks Certified Data Engineer Associate (https://credentials.databricks.com/5c1f1ea3-b07c-4a37-9ce0-6dcce66c75d5)**
- **Google Certified Cloud Digital Leader (https://www.credential.net/8f79b846-0694-4598-9472-2ffae6ccf405?key=e9b1d4bbd20fefc07b91788e87ef6b28b61f76c4f760b03f9ef10e268c77ca4d)**
- **Google Certified Generative AI Leader (https://www.credly.com/badges/ee7ad3ec-314e-4597-ac7b-4ca12a9b9725/public_url)**
- **Microsoft Certified: Azure Fundamentals (https://learn.microsoft.com/api/credentials/share/en-us/ShauryaJauhari/121692C2F7EEB83B?sharingId=D4214DC349F0F7F7)**
- **Harvard Manage Mentor Certification in "Strategic Thinking" (May 25th, 2023).**
- **Granted the RISE (Insta Award), twice, among others, by Infosys for appreciation at work.**
- **Secured various Infosys Internal Certifications on Big Data analytics.**
- **Certified Manuscript Reviewer at Elsevier, Springer Nature, and Peeref.**
- **Secured Learnship certificate for qualifying Business English Level 10.**
- **Earned Trialect Fellowship for a course on Scientific Writing at the University of Minnesota. (*Declined*)**

Oral/ Poster Presentations:

- Invited at ACM sponsored 9th Inter-Research-Institute Student Seminar in Computer Science (IRISS) for an oral presentation held at BITS, Goa on February 5th, 2015, co-located with the ACM India Annual event 2015.
- "Studying transcriptional regulation using graph databases", Poster Presentation,

International Conference on Stem Cell Biology, Guangzhou 2018.

- **"**Popularity and performance of bioinformatics software – The case of Gene Set Analysis", Poster Presentation, ISCB-LA SolBio BioNetMX 2020.

Publications:

Journals:

- Huang X, Lu X, Xie C, **Jauhari S**, Xie Z, Mei S, Mora A., "GSA Central-A web platform to perform, learn, and discuss gene set analysis." Front Med (Lausanne). 2022 Aug 11;9:965908. DOI: 10.3389/fmed.2022.965908. PMID: 36035404; PMCID: PMC9403262.
- Mora A, Huang X, **Jauhari S**, Jiang Q, Li X., "Chromatin Hubs: A biological and computational outlook." Comput Struct Biotechnol J. 2022 Jul 5;20:3796-3813. doi: 10.1016/j.csbj.2022.07.002. PMID: 35891791; PMCID: PMC9304431.
- Xie, C., **Jauhari, S.** & Mora, A., "Popularity and performance of bioinformatics software: the case of gene set analysis." *BMC Bioinformatics* **22,** 191 (2021). DOI: 10.1186/s12859-021-04124-5 (**JIF 2018: 2.511, Q1**)
- **Jauhari S.**, Rizvi S.A.M., "An Indian Eye to Personalized Medicine", Computers in Biology and Medicine, Elsevier, 59(2015), pp. 211-220, ISSN: 0010-4825. (**JIF 2018: 2.286, Q2**) DOI: 10.1016/j.compbiomed.2014.07.001
- **Jauhari S.**, Rizvi S.A.M., "Mining Gene Expression Data focusing Cancer Therapeutics: A Digest", IEEE/ ACM Transactions on Computational Biology and Bioinformatics, **11**(3), pp. 533 – 547, ISSN: 1545-5963. (**JIF 2018: 2.896, Q2**) DOI: 10.1109/TCBB.2014.2312002 (**A graphic from the manuscript featured as a cover image of the journal**)
- **Jauhari S.**, Rizvi S.A.M., "*A priori*, *de novo* mathematical exploration of gene expression mechanism via regression viewpoint with briefly catalogued modeling antiquity", International Journal of Biomathematics, World Scientific, **10**(1), ISSN: 1793-5245. (**JIF 2018: 0.894, Q2**) DOI: 10.1142/S1793524517500061
- Srivastava R, Singh R, **Jauhari S**, Lodhi N, Srivastava R. Histone Demethylase Modulation: Epigenetic Strategy to Combat Cancer Progression. Epigenomes. 2023 May 17;7(2):10. DOI: https://doi.org/10.3390/epigenomes7020010. PMID: 37218871; PMCID: PMC10204559.
- **Jauhari S.**, A Synopsis on the Yin Yang of Biology and Evolving Computational Science, Indian J. L. Sci. 12 (1): 01-04, 2022.
- Jauhari, Shaurya. "Algorithmic red teaming approaches to secure LLMs." *Machine Learning with Applications* (2025): 100815.

In Progress:

- Agarwal N., **Jauhari S.**, Srivastava R., "Epigenetic Players in the Systemic Acquired Resistance Pathway: Combat-Framework against Pathogenic Infestation.".
- **Jauhari S.** et al., "The Immunological Stance of Vitamin D in Viral Regulation: Unveiling a Multifaceted Defense.".
- **Jauhari S.** et al., "Inferring distant chromatin interactions via machine learning models".
- **Jauhari S.**, "Internet-Of-Things with Blockchain: A Yin-Yang in Biomedical and Health Informatics."
- Ahmed S. et al., "Deep Learning Under Fire: An Examination of Prominent Adversarial Attacks".

Preprints:

- Jauhari R**., Jauhari S.,** Rizvi S.A.M., "WDR88, CCDC11, and ARPP21 genes indulge profoundly in the desmoplastic retort to prostate and breast cancer metastasis.", Preprint. DOI: 10.1101/178566
- Jauhari R., Dhakal S., **Jauhari S.**, "Inferring propensity amongst lung and breast carcinomas via overlapped gene expression profiles", Preprint. DOI: 10.1101/178558
- Srivastava, R., Jaiswal, N., Srivastava, R. and Jauhari, S. 2025. Lipase Catalysts signal in the Next-Generation of Biodiesel Production. *Available at SSRN 5365923*.
- Jauhari, S. and Vobugari, S., 2025. Delineating the Big Data Era and the Information Overload Problem. *Available at SSRN 5209835*.
- Jauhari, S. "Role of Bioinformatics and Articial Intelligence in Elucidating Gasotransmitter-Mediated PTMs." *Available at SSRN 5782684* (2025).

Book Chapters:

- *Structuring Gene Expression Mechanism with rudimentary Mathematical postulates.* InTechOpen- Biomathematics (*Accepted*). https://zenodo.org/record/4067097
- Jauhari, S. (2024). How Do Big Data and Generative AI Dawn on Computational Biology?. In: Chaudhary, A., Sethi, S.K., Verma, A. (eds) Unraveling New Frontiers and Advances in Bioinformatics. Springer, Singapore. https://doi.org/10.1007/978-981-97-7123-3_10. Available also at SSRN: https://dx.doi.org/10.2139/ssrn.4779486 (Featured amongst the top-ten downloaded papers).

Technical Acquaintances:

- Analysis Platforms/ Tools : UNIX, Octave, Cytoscape, Windows Server, Hadoop Framework, Spark Framework, Kafka, Cloud services (GCP, AWS, Azure), Neo4j, SQL.
- Scientific Programming   : R, Python.
- Documentation   : Microsoft Office, Libre Office, LaTeX.

Massive Open Online Courses (MOOCs) taken:

- An intuitive introduction to probability- University of Zurich (Coursera)
- Data Science Maths Skills- Duke University (Coursera)
- Introduction to Genomics Technologies- Johns Hopkins University (Coursera)
- Whole genome sequencing of bacterial genomes: tools and applications- Technical University of Denmark (Coursera)
- Writing in the Sciences- Stanford University (Coursera)
- How to Use Git and GitHub (Udacity)
- Python for Genomic Data Science (Coursera)
- Biology Meets Programming: Bioinformatics for Beginners (Coursera)
- Bioinformatics: Introduction and Methods 生物信息学: 导论与方法 (Coursera)

Professional Affiliations:

- Member | **Cancer Epigenetics Society (CES)**
- Freelance Copyeditor | Academic Communications Reviewer at **Kolabtree Inc.**
- Freelance Editor at **Cactus Communications Inc.**
- Manuscript Reviewer at **Springer- Interdisciplinary Sciences: Computational Life Sciences**.
- Manuscript Reviewer at **Springer- Discover Biotechnology.**
- Manuscript Reviewer at **IEEE- Journal of Biomedical and Health Informatics**.
- Manuscript Reviewer at **Oxford Academic – JAMIA Open**.
- Manuscript Reviewer at **Hindawi** Publishing.
- Manuscript Reviewer at **SAGE** Publishing.
- Manuscript Reviewer at **Springer Nature – BMC Bioinformatics**.
- Manuscript Reviewer at **Springer Nature – Scientific Reports**. **(>15 reviews hitherto)**
- Manuscript Reviewer at **Elsevier – Computers in Biology and Medicine**. **(>115 reviews hitherto**)
- Member | **International Society of Computational Biology (ISCB)**
- Mentor | **Freedom Employability Academy**

Parallel Ventures:

- **Technical Writing and Tutorials (https://shauryajauhari.github.io)**
- **LinkedIn (https://www.linkedin.com/in/shauryajauhari/)**
- **Drug Tales (https://shauryajauhari.github.io/drugTales/)**

The core idea is to resuscitate a knowledge platform that is commonly shared by patients and enables them as well as clinicians, and drug manufacturers to analyze first-hand feedback from the consumer regarding a drug or therapeutic efficacy. Leveraging the facts that (i) animal models do not properly emulate human physiology, (ii) drug discovery process is quite taxing on time and money, (iii) drug approval rate is disappointingly low, (iv) disease state is dynamic and evolves with therapy, and (v) patient feedback is never formally registered, when *off the record*. Technically, this completes the pipeline of drug delivery, beyond pharmacovigilance.

Projects:

- **Predicting Functional Role of Cis-Regulatory Elements (CPSF 2019)**

This work involves eliciting interactions within the spatial localization of the genome inside the nucleus. The non-linear organization of the genome engenders distal regions to communicate and possibly regulate the genes therein. This scenario is exclusive to the metabolic pathways oriented to a cell type. We plan on developing a computational pipeline to envisage DNA clusters that mark biochemical reactions, hence driving production of proteins.

Other Details:

Nationality	: Indian
Languages known	: English, Hindi.
Current Address	: D2, Chamundeshwari Apartments, 13th Cross, V. V. Mohalla, Mysore, India. Pin: 570002.
Permanent Address	: C-278, Rajajipuram, Lucknow, Uttar Pradesh, India. Pin: 226017.
Skype ID	: shaurya.jauhari

Scientific Research Platforms:

Google Scholar : https://scholar.google.com/citations?user=vUtuzMcAAAAJ&hl=en
Scopus : https://www.scopus.com/authid/detail.uri?authorId=56226316600
Orcid : https://orcid.org/0000-0001-6275-2724
SciProfiles : https://sciprofiles.com/profile/shauryajauhari
WebOfScience : https://www.webofscience.com/wos/author/record/H-8479-2012