

# Syed Asfar Lathif Salaudeen

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## EDUCATION

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1. **PhD in Genome Science and Technology** 2020 - Present  
University of British Columbia, Vancouver, Canada
2. **B. Tech in Biotechnology** CGPA: 9.86/10 2016 - 2020  
B S Abdur Rahman Crescent Institute of Science and Technology, Chennai, India

## WORK AND RESEARCH EXPERIENCES

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1. **Deciphering Regulatory Genomic Variation in Cancers** (September 2020 –Present)
  - Graduate Thesis Project
  - Generate synthetic genomic dataset using CRISPR Cas9 based mutagens on regulatory DNA.
  - Developing Machine Model to understand how genomic variants of enhancers and promoters will affect gene regulation in cancer phenotypes
2. **Wisecorner Laboratories Pvt Ltd** (October 2019 – December 2019)
  - Part-time Technical Research Apprentice
  - Assisted in their ongoing research on CRISPR in tasks including sgRNA design and synthesis, bacterial transformation, and molecular cloning. Helped organize scientific workshops and training sessions.
3. **Molecular Comorbidity Analysis between Metabolic disorders and Cancers** (December 2019 – June 2020)
  - Undergraduate Dissertation Project
4. **In Silico Targeting of Zika Virus RdRP to Identify Potential ZIKV Inhibitors** (May 2019 – June 2019)
  - Summer Research Internship
  - Alagappa University, Tamilnadu
5. **Molecular Characterization of Multi Drug Resistant Bacteria from Urinary Tract Infections** (June 2018 – Aug 2018)
  - Indian Academy of Sciences Summer Research Fellowship
  - Amity University, Rajasthan

## PROJECTS

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1. **RefineMod** – R package to optimize and compare linear regression models. Developed as a part of STAT545 course - [Website](#)
2. **CovidTrack** – Shiny app to track global cases and deaths related to COVID-19. Developed as a part of STAT545 course – [Web application](#)

## AREAS OF INTEREST

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Genomics, Bioinformatics, Synthetic Biology

## TEACHING EXPERIENCE

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1. **STAT540**, UBC (Jan 2022 – Apr 2022)
  - Leading tutorial sessions, monitoring student discussions, holding office hours, grading assignments
2. **STAT545**, UBC (Sept 2021 – Dec 2021)
  - Monitoring slack discussions, managing course website and GitHub repo, holding office hours, grading assignments, assisting the instructor during lecture.

## TECHNICAL COMPETENCIES

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**LABORATORY SKILLS:** Nucleic acid isolation, Gel electrophoresis, PCR, Molecular cloning, Tissue culture, Transfection, Genome engineering (CRISPR/Cas9)

**COMPUTER SKILLS:** R and Python (Proficient), C and C++ (Intermediate), UNIX command line, Cytoscape, NGS data analysis (Galaxy, Bioconductor, and Tuxedo Suite).

## PUBLICATIONS

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1. Salaudeen, A., Banerjee, S. Network Medicine-Based Analysis of Association Between Gynecological Cancers and Metabolic and Hormonal Disorders. *Appl Biochem Biotechnol* (2021). <https://doi.org/10.1007/s12010-021-03743-1>

## CERTIFICATIONS

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1. **Functional Genomics** by IIT-Kanpur on NPTEL.
2. **Genomic Data Science Specialization** by Johns Hopkins University on Coursera.
3. **R programming** by Johns Hopkins University on Coursera
4. **Exploratory Data Analysis** by Johns Hopkins University on Coursera
5. **Statistical Inference** by Johns Hopkins University on Coursera
6. **Introduction to Proteogenomics** by IIT-Bombay on NPTEL

## AWARDS

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1. **Pharmhacks 3rd place**, McGill University, 2022.
2. **Affiliated Fellowship Masters** – 16,000 CAD (August 2021 – August 2022).
3. **Gold Medalist** – Graduated with highest CGPA in the graduating class of 2020 in my undergraduate university
4. **Summer Research fellowship** – INR 25000 (June 2018 to August 2018).

## ACADEMIC TALKS

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1. Speed Talk. “**Deciphering Non-Coding Mutations in Cancers**” UBC Departmental Conference BIG March 2022.

## ACHIEVEMENTS

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1. 1<sup>st</sup> place in the “**Introduction to Proteogenomics**” course exam offered by NPTEL.
2. Founded “**Crescent Bioinformatics Association**”
  - a forum for students and faculties interested in Computational and Quantitative biology in my university. Organized weekly journal clubs, conferences, guest lectures and workshops on bioinformatics niches

## VOLUNTEERING EXPERIENCE

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- Educational Support Volunteer in ‘**Make a Difference**’ (MAD) NGO (August 2018 – Present).
- Teaching member in **UBC’s Let’s Talk Science** – Science outreach activities for elementary school students
- **Tutor - [Sunali’s Classes](#)**
  - Taught biology to high school students, created questionnaires, videos and contents and guided for their exam preparation.