

# Gagan Shetteppanavar

Curriculum Vitae

## PERSONAL DETAILS

<i>Birthday</i>	July 17, 1999
<i>Address</i>	No. 10, Shakambari Nagar, Sarakki Layout, Banashankari, Bengaluru - 560078
<i>Phone</i>	+44-7887725139, +91 94480-85523
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<i>Github</i>	<a href="https://github.com/vs-gagan">github.com/vs-gagan</a>
<i>LinkedIn</i>	<a href="https://linkedin.com/in/vs-gagan">linkedin.com/in/vs-gagan</a>

## EDUCATION

<b>Master of Science, Bioinformatics</b> <i>University of York (Ongoing)</i> CGPA : -	2024-2025
<b>Inegrated Masters of Science, Biology</b> <i>Indian Institute of Science Education and Research, Thiruvananthapuram</i> CGPA : 6.93	2017-2022
<b>Pre-University college</b> <i>Reva Indedpendent PU college, Bengaluru</i> Percentage : 63%	2015-2017
<b>High School</b> <i>Mayoor School, Raipur</i> CGPA : 8.6	2012-2015

## RESEARCH EXPERIENCE

- Studied the **Effect of replication-transcription conflicts on gene expression noise in *Bacillus subtilis*** as part of my **masters thesis** under the guidance of **Dr. Sabari Sankar Thirupathy, Indian Institute of Science Education and Research, Thiruvananthapuram**, August-April 2021
  - Characterized the impact of Hydroxyurea on growth rate and plating efficiency of *Bacillus subtilis*, gaining hands-on experience in bacterial culture techniques.
  - Independently captured bacterial images using epi-fluorescence and differential interference contrast microscopy, followed by comprehensive image analysis.
  - Adapted and standardized protocols for Hydroxyurea treatment and imaging, demonstrating strong skills in experimental design and optimization.
  - Gained insights into the stochastic nature of biological processes and the role of physical interactions in gene expression variability.
  - Collaborated within a research team, working closely with my PhD advisor and a fellow MSc student, strengthening both independent research and teamwork skills.

- Characterised the  $\Delta$ Mfd *Bacillus subtilis* strains for plating efficiency and growth rate as a summer intern under the guidance of **Dr. Sabari Sankar Thirupathy, Indian Institute of Science Education and Research, Thiruvananthapuram**, June - July 2019
- Participated in the collection and survey of seagrass in Palk Bay and Gulf of Mannar for characterising the distribution and abundance of Dugong and Olive Ridley Turtle specific food sources as summer intern for **Campa-Dugong and Seagrass Recovery Project** under **Dr. K. Sivakumar, Wildlife Institute of India**, April 2019
- Worked on project: **Optimum escape theory in grasshoppers** as a part of course work, to analyse the relation between the angle of approach of threat and the angle of angle and distance of initial jump to escape, under the supervision of **Dr. Ullasa Kodandaramaiah and Prof. Hema Somanathan, Indian Institute of Science Education and Research, Thiruvananthapuram**, August - November 2017

## **ACADEMIC ACHIEVEMENTS**

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- Gold Medal in International Math Olympiad, 2013
- 98.8 percentile in ASSET(Assessment of Scholastic Skills through Educational Testing) examination, 2014
- Test of English as a Foreign Language (TOFEL) score : 105/120 (29,26,25,27)
- General Graduate Record Examinations (GRE) score : 317 (156,157,2.0) (Expired 2024)

## **WORKSHOPS AND CONFERENCES ATTENDED**

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- Frontier Symposium in Biology, January 2020
- Basic Bioinformatics course on 'INTRODUCTION TO GENOMICS AND BIOINFORMATICS, 2021' by C-CAMP
- Foundation course on 3D Bio-printing by Next Big Innovation Labs
- Basic Image Analysis Course by C-CAMP
- Online ensembl workshop by IISER-TVM
- Frontier Symposium in Biology, April-May 2022
- Hands-on training on RNA Sequencing and Data Analysis by Clevergene
- Python for Biologists: Beginners Level by Nano Science and Technology Consortium
- Northern BUG 14: A network of bioinformaticians and users or bioinformatics services in the north of England.

## SKILLS

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<i>Lab Skills</i>	Plating efficiency analysis Growth curve analysis Differential interference contrast(DIC) microscopy Epifluorescence microscopy Protein and DNA quantification techniques
<i>Software</i>	Python R: RStudio and RStudio Server SQL Wolfram Mathematica MATLAB Graphpad Prism BLAST Microsoft Office Suit <b>Graphic design softwares:</b> Adobe Photoshop, Adobe Indesign <b>Media editing software:</b> Adobe Audio, Adobe Premiere Pro
<i>Languages</i>	English (fluent) Hindi (native) Kannada (native)

## OTHER SKILLS AND EXPERIENCES

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- Lead graphic designer for Sopanam, the official institute magazine of IISER-TVM (2018-2021)
- Graphic designer for the official science club (Anvesha), cultural club (Ishya) and Biology club (Proteus) at IISER-TVM (2019-2021)
- Co-designer of the Annual report(2019-2020) of IISER-TVM
- District level medalist in Judo
- Drummer for a college band
- Reviewer for college and student magazines