

# Aditya Jeevannavar

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## EDUCATION

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### Indian Institute of Technology Madras

*BS & MS (Dual Degree) in Biological Sciences*

Chennai, TN

Aug. 2016 – June 2021

### University of Turku

*Student Exchange Program*

Turku, FI

Jan. 2019 – May 2019

## RESEARCH EXPERIENCE

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### Student Researcher

June 2020 – Present

*Initiative for Biological Systems Engineering, IIT Madras*

Chennai, TN

- Integrating multi-omics data using *Graph Convolutional Networks & View Correlation Discovery Network*
- Utilizing pairwise interactions to improve performance and interpretability of the graph convolution based model
- Processing multi-omics (TCGA Breast Invasive Carcinoma) and multi-tissue (HBTRC Huntington's Disease) data

### Bio Engineering Summer Training Program Intern

May 2018 – July 2018

*Centre for BioSystems Science and Engineering, Indian Institute of Science*

Bangalore, KA

- Created new *S. pombe* strains for study using random spore analysis and replica plating
- Used fluorescent markers and confocal microscopy to visualize yeast mitochondrial proteins and nuclei
- Analysed the microscopy data using *FIJI* (a distribution of ImageJ) and *MATLAB*

### iGEM Team Member

Jan 2017 – Dec 2017

*Department of Biotechnology, IIT Madras*

Chennai, TN

- Started **The Language Project**, a bio-science communication project in Indian and foreign languages
- Worked on **ChassiDex**, a unique resource for easy access and sharing of scientific protocols
- Maintained cultures, ran growth assays, prepared ultra-competent cells, and performed cell transformation

## WORK EXPERIENCE

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### Teaching Assistant

Aug 2020 – Present

*Department of Computer Science and Engineering, IIT Madras*

Chennai, TN

- Conducted introductory molecular biology classes and tutorials for a class of 20 students
- Assembled resource repositories for course projects on Moodle
- Created and graded assignments using Overleaf and Gradescope respectively

### Laboratory Assistant

April 2019 – July 2019

*Molecular Plant Biology Unit, University of Turku*

Turku, FI

- Prepared various sterile glassware, media, broths and stocks for microbial cultures and assays
- Maintained photosynthetic microbial cultures, measured growth, and imaged them under a compound microscope
- Ligated, inserted, and isolated plasmids, and performed gel electrophoreses

## ACHIEVEMENTS

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**iGEM '17:** Won a *Silver Medal* for the project presented at the Giant Jamboree in Boston, MA

**INSPIRE Scholarship:** Receive annual award of ₹60,000 from the Dept. of Science & Technology, **Govt. of India**

**Damodarshree National Award for Academic Excellence '18:** Shortlisted among the top 10 candidates

## TECHNICAL SKILLS

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**Languages:** Python, R, MATLAB

**Libraries:** TensorFlow2, PyTorch, Matplotlib, Tidyverse, pandas

**Bioinformatics Tools:** Shell scripting, VSEARCH, samtools, bcftools

## EXTRACURRICULAR ACTIVITIES

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**Editor, T5E:** Wrote and edited articles for IIT Madras' student media body

**Consultant, T5E Podcast:** Consulted and created content for the podcast, *Vox Populi Vox Insti*

**Scriptwriter, IITMTV & Pod, da:** Wrote stories and scripts for short films, musicals, and podcasts

**Quizzer:** Represented IIT Madras at many local and national quiz competitions