



# MURALI AADHITYA

## MAGATESHVAREN SARAS

### CONTACT INFO

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### EDUCATION

<b>PhD Research Scholar</b> <i>IITB-Monash Research Academy   Bombay, India</i>	<b>2022-Present</b>
<b>M.Tech in Medical Biotechnology</b> <i>Indian Institute of Technology Hyderabad   Telangana, India</i> <ul style="list-style-type: none"><li>Thesis topic: "Evolutionary Dynamics of SARS-CoV-2"</li><li>CGPA: 9.61/10</li></ul>	<b>2020-2022</b>
<b>B.Tech in Biotechnology</b> <i>National Institute of Technology, Calicut   Kerala, India</i> <ul style="list-style-type: none"><li>Thesis topic: "Studies on Bioremediation of pesticide Carbendazim using agricultural soil samples."</li><li>CGPA: 8.3/10</li></ul>	<b>2016-2020</b>
<b>Higher Secondary Schooling</b> <i>Shree Sarasswathi Vidhyaah Mandheer, Mettupalayam   TN, India</i> <ul style="list-style-type: none"><li>Scored 477/500 in All India Senior Secondary Certificate examination</li></ul>	<b>2014-2016</b>
<b>Secondary Schooling</b> <i>Emerald Valley Public School, Salem   TamilNadu, India</i> <ul style="list-style-type: none"><li>CGPA 9.8/10 in All India Secondary School Examination</li></ul>	<b>2016-2020</b>

## EXPERIENCE

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- TEACHING ASSISTANT** **2020-2022**  
*Indian Institute of Technology, Hyderabad* | *Telangana, India*
- INTERN AT HUMAN MOLECULAR GENETICS LAB** **June 2018**  
*Rajiv Gandhi Center for Biotechnology* | *Kerala, India*
- TRAINEE** **May-June 2017**  
*Madras Diabetes Research Foundation* | *TamilNadu, India*

## ACHIEVEMENTS

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- Exams**
- GRE : 320/340
  - IELTS : Band 8
  - GATE : 602/1000; All India Rank 227
- Awards**
- Runner-up, Inter-hostel Badminton Championships, IITB, 2023
  - Proficiency Award, Shree Sarasswathi Vidhyaah Mandheer, 2016
  - State Level Spell Bee, 10th Position, 2015
  - District Aeromodelling Champion, Shree Sarasswathi Vidhyaah Mandheer, 2015
- Scholarships**
- MHRD Fellowship - 2020-2022
  - DBT Fellowship - 2022-2026

## PUBLICATIONS

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- Articles**
- Magateshvaren Saras, M.A.,** L.P.P. Patro, P.P. Uttamrao, and T. Rathinavelan (2022a). "Geographical distribution of SARS-CoV-2 amino acids mutations and the concomitant evolution of seven distinct clades in non-human hosts". In: *Zoonoses and Public Health*. DOI: 10.1111/zph.12971.
- (2022b). "SARS-CoV-2 whole-proteome sequences from environment as an indicator of community viral distribution, evolution and epidemiological dynamics: A cohort analysis of Austria". In: *Environmental Microbiology Reports*. DOI: 10.1111/1758-2229.13102.
- Sathyaseelan, Chakkarai, **Magateshvaren Saras, M.A.,** L. Ponoop Prasad Patro, Patil Pranita Uttamrao, and Thenmalarchelvi Rathinavelan (2023). "CoVe-Tracker: An Interactive SARS-CoV-2 Pan Proteome Evolution Tracker". In: *Journal of Proteome Research*. DOI: 10.1021/acs.jproteome.3c00068.
- Acknowledgements**
- G., Vigneshwaran, Qurratulain Annie Hasan, Rahul Kumar, and Avinash Eranki (2022). "Analysis of single-nucleotide polymorphisms in genes associated with triple-negative breast cancer". In: *Frontiers in Genetics*. DOI: 10.3389/fgene.2022.1071352.

## WORKSHOPS

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- NEXT-GEN SEQUENCING** **February 2022**  
*TNAU* | *TamilNadu, India*

## EXTRA CURRICULARS

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### POSITIONS

- General Secretary, Department of Physics, IITB | 2023 - 2024
- Placement Representative, National Institute of Technology, Calicut | 2018 - 2020
- Secretary, Biotechnology Association, National Institute of Technology, Calicut | 2018-2019
- Executive, Ragam Ethnic Stall, Ragam, National Institute of Technology, Calicut | Mar 2017, Mar 2018
- Chairperson, Valley Vivace, Emerald Valley Public School | 2012

### VOLUNTEERING

- Organiser, Modelling in Health and Disease, NDMC, IITB | June 2023
- Organiser, SymPhy 2023, Dept. of Physics, IITB | January 2023
- Organiser, 5-Day conference on "Stochastic Thermodynamics in Biology", Dept of Physics, IITB | December 2022

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## SKILLS

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| ● ● ● | Python3, BASH, Microsoft Office |
| ● ● ○ | Git, HTML, CSS, Adobe Photoshop |
| ● ○ ○ | LaTeX                           |

Languages	• Tamil	Native Proficiency
	• English	Full professional proficiency
	• Hindi	Limited Working Proficiency
	• Malayalam	Limited Working Proficiency

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## REFERENCES

Prof. Mithun K Mitra	PhD Supervisor Associate Professor Department of Physics Indian Institute of Technology, Bombay Mumbai, Maharashtra, India. mkmitra@iitb.ac.in
Prof. Sonika Tyagi	PhD Supervisor Adjunct Senior Professor Monash University, Melbourne, Australia sonika.tyagi@monash.edu
Prof. Thenmalarchelvi Rathinavelan	M.Tech Thesis Supervisor Associate Professor Department of Biotechnology Indian Institute of Technology, Hyderabad Telangana, India. tr@bt.iith.ac.in