

AKHILESH KESAVAN

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EDUCATION

- MS** Indian Institute of Technology Madras, Biological Sciences September 2021
(Part of the BS&MS Dual Degree Programme)
Thesis: "Identifying Interacting Partners of Ribosomal Proteins"
Advisor: Dr. Himanshu Sinha
- BS** Indian Institute of Technology Madras, Biological Sciences September 2021
(Part of the BS&MS Dual Degree Programme)
Minored in Nanotechnology

HONORS AND AWARDS

- Innovation in Science Pursuit for Inspired Research (INSPIRE)** 2014-2019
Awarded for securing a top 10000 rank in the Joint Entrance Examination and pursuing
Natural and Basic Sciences

RESEARCH EXPERIENCE

- Indian Institute of Technology, Madras** 2019 to 2020
Undergraduate, Systems Genetics Lab, Dr. Himanshu Sinha
- Identified and cloned all ribosomal protein genes to further study ribosomal protein interactions
 - Set up protocols for generating clones compatible to gateway cloning
 - Performed extensive amounts of DNA extraction, purification and amplification as well as transformations
- Shantha Biotechnics/Sanofi, Hyderabad** May 2016
Intern
- Studied the different protein estimation methods and their application in biopharmaceuticals and use in vaccine formulation
 - Performed various protein extraction and purification techniques
- GeneTech, Hyderabad** December 2015
Intern
- Project: Detecting common mutations in HBB gene by ARMS PCR for molecular diagnosis of Beta Thalassemia and Sickle Cell Anemia
 - Project: Detecting number of CGG repeats in FMR gene for molecular diagnosis of Fragile X syndrome by PCR,

TECHNICAL SKILLS

Wetlab: Molbio techniques, Genetic screens, Immunohistochemistry, Microbiology techniques

Software: BLAST, CD-HIT, Clustal W, GROMACS, MegaX, PyMol, VMD.

TEACHING EXPERIENCE

Freelance Tutoring, Hyderabad September 2021 to Present

- Tutoring students from grade 10 to grade 12 in their respective mathematics and science curriculum
- Developed teaching materials required to better convey concepts on an online platform
- Materials include slides, images and animations

PROFESSIONAL AFFILIATIONS

Biotech club, Center for Innovation (CFI) IIT Madras, 2015-2016

- Part of the Biotech interest club organizing workshops and events.

Biofest, 2015-2016

- Head of the Marketing, Student Relations and Hospitality team of Biofest, 2016, the annual technical festival of the Department of Biotechnology, IIT Madras

PROFESSIONAL SERVICE

Engineering meets Evolution Symposium Co-Organizer

EMBO, Symposium, 2021

COMMUNITY SERVICE

Desh Ka Mentor

Mentor, Hyderabad, August 2021 – September 2021

LANGUAGES

English, Tamil, Telugu, Hindi: Native Languages

French, Japanese, Chinese (Mandarin): Novice Listener, Speaker, Reading and Writing

COMPUTER SKILLS

Programming: Proficient in Python and MATLAB. Familiar with R, C, C++, HTML and CSS

Applications: Proficient in Word, Excel, PowerPoint. Familiar with Photoshop and Illustrator

Platforms: Windows, Linux

OTHER

Interests and Hobbies

- Reading mythologies and fiction
- Making pixel art and animation
- 3k MMR player in the Multiplayer Online Battle Arena game Dota 2
- Reviewing games