

HARSHINI PARAKH

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EDUCATION

University of Massachusetts, Amherst

Amherst, MA

Bachelor of Science, Biology

December 2022

Awards: Dean's List; Chancellor's Award for Merit;

GPA: 3.70/4.0

Relevant coursework: Cellular & Molecular Biology, Intro Ecology, Intro Physiology, General Genetics, General Genetics Lab, Wildlife Reproduction, Molecular immunology, Anatomy and Physiology- I.

SKILLS

Laboratory Skills: PCR Technique, qPCR, DNA extractions, RNA extractions, Plant gene extraction analysis by RT-PCR, Autoclaving, Efficient pipetting, Media plates prepping, Nano-dropping and analysis, Sterile techniques.

Softwares: Image J (Fiji), ChemDraw, Microsoft Office, Adobe Spark, R studio

Languages: English, Hindi, Marathi, Marwari, Basics of German

EXPERIENCE

TOOTHPRINTS PC

Natick, Massachusetts

Research Assistant

December 2021 - Present

- Writing a Research Paper with an orthodontic professional with over 40 years of industry experience.
- Performing research and collecting data on the forces applied by the pacifier bulb on the upper palate of babies.
- Reviewing scientific literature and peer reviewed journals to analyse & quantify my measurements.

THE HAZEN LAB

Amherst, Massachusetts

Research Assistant

May 2021 - Present

- Examining the connection between two systems; light temperature signaling and transcription regulation of secondary cell wall development.
- Performed RT-PCR to analyze plant gene extraction.
- Performed DNA and RNA extractions for more than 50 samples at a time.
- Performed microscopy imaging and analyzed more than 1000 images with accuracy using ImageJ.
- Quantified DNA and RNA samples using nano-dropping.

UMASS AMHERST - CHEMISTRY DEPARTMENT

Amherst, Massachusetts

Peer Led Team Learning, Leader in Chemistry

August 2020 - May 2021

- Recruited to become a peer-leader as a result of excellent participation in a General Chemistry course.
- Led a group of 10 students through a peer-led model of chemistry course.

VOLUNTEERING

STARKEY - HEARING AID FOUNDATION

India

Volunteer

2017 - 2018

- Assisted doctors and counseled 1500 underprivileged patients on how to use the hearing aid and its volume adjustment techniques.

PROJECTS

QUICKNOTES

India

Co-Founder

July 2020

- A revolutionary platform where students can submit their notes and/ or purchase notes for the various entrance examinations taking place in the country.
- This platform is being developed for users all over India.
- Website: www.quicknotes.co.in

COVIMUNE

India

Research Lead

December 2020

- It is an all-in-one medical dashboard to analyse, store, remind and share medical data among all hospitals.
- Spearheaded the research and development of the "Covid Severity Predictor" – analyses RDW count and blood group to suggest severity towards COVID – by analysing scientific journals and literature.
- Website: <https://akethu.github.io/covimune/results.html>