

Harshini Parakh

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(413) 409-9331

Amherst, MA

An undergraduate student majoring in Biology.

EDUCATION

University of Massachusetts Amherst – Bachelor of Science, Biology

May 2019 – December 2022 | Cumulative CGPA: 3.770/4.0

Amherst, MA

Highlights: Dean's List; Chancellors Scholarship Award

LABORATORY SKILLS

- Plant gene expression analysis by RT-PCR.
- PCR technique
- Experience in sterile techniques
- Nano-dropping and analysis
- Quantitive PCR
- DNA/RNA extractions, sectioning using vibratome
- Efficient pipetting

SOFTWARE SKILLS

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

LANGUAGES

English, Hindi, Marathi, Marwari, Basics of German

WORK EXPERIENCE

The Hazen Lab – *Research Assistant*

May 2021 – current

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- 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 500 images with accuracy using ImageJ.
- Quantified DNA and RNA samples using nano-dropping.

Toothprints Inc. – *Research Assistant*

Dec 2021 – current

- Writing a Research Paper with Dr. David Tesini.
- Performing research and collecting data on the forces applied by the pacifier bulb on the upper palate of babies.

QuickNotes– *Founder*

July 2020 - current

- Founded a legally registered start-up helping students prepare for Indian entrance exams.
- Recruited a team.
- Designed and developed a website.

University of Massachusetts Amherst – *Peer Led Team Learning- Leader in Chemistry*

August 2020 – May 2021

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

VOLUNTEERING

Starkey, *Hearing Aid Foundation*

Twice for 2 weeks in 2017 & 2018

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

LINKS

- My portfolio: <https://hparakh.github.io/harshiniparakh>
- LinkedIn: <https://www.linkedin.com/in/harshini-parakh-3143171a8/>