

Krishnaveni Dole

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EDUCATION

Columbia University, School of Engineering and Applied Sciences, New York, NY Expected May 2025
B.S. in Chemical Engineering, Concentration in Biotechnology
Relevant Coursework: Intensive General Chemistry, General Chemistry Lab, Intro to Computing for SEAS (Spring 2022)
Andover High School, Andover, MA Jun. 2021

RESEARCH EXPERIENCE

Independent Synthetic Biology Research Project Andover, MA
Researcher, Co-Author Jan. 2018 – Jun. 2021

- Published 2 research papers in international BioTreks Synthetic Biology Journal (2019, 2020)
- Acquired \$1500+ funding for laboratory equipment and reagents through competition prize money and local grants (unable to implement experimental plan due to COVID-19)
- Collaborated with scientists of relevant specialties from institutions including MIT, Harvard, the National Renewable Energy Laboratory, and internationally

BioSTAR Lab-Based Bioengineering Program Harvard School of Engineering and Applied Sciences, Cambridge, MA
Selected Program Participant Jul. 2019

- Experience with cell culture, scanning electron, fluorescent, and confocal microscopy, and microfluidics
- Cultured 2D and 3D plates of mammalian cells and performed nanoparticle drug delivery on cancerous cells
- Cultured bacteria and treated biofilm with antibiotics
- Presented findings to audience of Harvard SEAS faculty and researchers by writing scientific posters and received feedback

RELEVANT EXPERIENCE

Phillips Academy Ice Rinks Andover, MA
Ice Skating Instructor Jan. 2019 – Present

- Taught groups of 1-10 students of ages 2-16
- Followed the U.S. Figure Skating Association's Basic Skills Teaching Program

Boston Open Science Laboratory (Community Biology Lab) Cambridge, MA
Intern: Teaching and Social Media Mar. 2020 – Oct. 2020

- Created social media campaign to recognize minority scientists throughout history
- Supervised 5 interns to research scientists and create social media posts
- Developed lab-based classes to introduce local youth to biotechnology

PathCheck Foundation (Contact Tracing Technology Nonprofit) MIT Media Lab, Cambridge, MA
Core Volunteer Apr. 2020 – Oct. 2020

- Investigated current contact tracing technologies
- Represented PathCheck while contacting government officials of countries and U.S. states

MIT Global Community BioSummit MIT Media Lab, Cambridge, MA
Selected Conference Attendee Annual: 2020, 2019

- Contributed to creation of community biology ethics statement through discussions with professional scientists
- Investigated topics of diversity, bias, and education in biotechnology

HONORS

Finalist: Inposcience International Research and Innovation Competition (2020)
2nd Place: Women in STEM Envision International Research Competition (2020)
Finalist: Spellman HVE CleanTech International Research Competition (2019)
National Merit Finalist (2021)

PRESENTATIONS

Biotech and the Genetic Revolution Event (2020) Boston Museum of Science, Boston, MA
LearnLaunch Learning Innovation Showcase (2020) Hynes Convention Center, Boston, MA
Keynote Speaker at BioBuilder Summer Program (2020, 2019) Lab Central, Cambridge, MA
Global Community BioSummit Professional Conference (2019) MIT Media Lab, Cambridge, MA
News Features: Boston 25 News, WCVB Channel 5 News, The Eagle Tribune (2020) Boston, MA

ACTIVITIES

Columbia University Society of Women Engineers, Organizational Committee Member of Alumni Committee Sept. 2021 – Present
Hindu Students Organization, Board Member Sept. 2021 – Present

SKILLS

Computer: HTML/CSS/JavaScript, Github, Introduction to Python and Java, Enrolled in Python Course for Spring 2022, Canva
Language: Massachusetts Seal of Biliteracy in Spanish, Fluent in Hindi, Conversational Marathi
Lab: Micropipetting, Introductory Experience with Cell Culture, SEM, Fluorescent and Confocal Microscopy