

Ana Bates

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EDUCATION

Bates College, Lewiston, ME Graduation: May 2026
Bachelor of Science, Majors: Biochemistry | Concentrations: Applying Mathematical Methods, Human Body
GPA: 3.89, Dean's List for Academic Excellence: Fall 2022, Winter 2023, Winter 2024, Fall 2024, Winter 2025
Relevant coursework: Lab-Based Biological Inquiry, Biological Research Experience, Microbiology w/ Lab

RESEARCH EXPERIENCE

Massachusetts General Hospital Research Intern, Boston, MA Summers 2022, 2024, 2025

- Performed clinical research for the Orthopaedic Oncology Service with Dr. Santiago Lozano Calderon, M.D., Ph.D.
- Compiled a database and analyzed the data to work on two journal articles
- Obtained CITI Biomedical Research Investigators and Key Personnel, Good Clinical Practice, RCR Basic Course, PHE HIPPA, and PHE Research certifications through online training

Lab-Based Biological Inquiry: Poisons, Course-Based Research, Bates College, Lewiston, ME Winter 2023

- Completed research on the effects of PFAS on zebrafish behavior and gene expression under Dr. Larissa Williams
- Developed skills in microscopy, bacterial cultures, DNA and RNA extraction and purification, PCR and qPCR, DNA sequencing, Excel data analysis, scientific writing and communication
- Presented findings during an on-campus poster presentation to members of the Bates College Biology Department

PROFESSIONAL EXPERIENCE

Bates College Biology Department Teaching Assistant, Lewiston, ME Winter 2024, Fall 2025

- Instructed advanced laboratory techniques for molecular biology including microscopy, bacterial cultures, DNA and RNA extraction and purification, PCR and qPCR, DNA sequencing
- Familiarized students with Excel data analysis, scientific writing, and communication to diverse audiences

Scientific Content Creator, Bates College Harward Center for Community Partnerships, Lewiston, ME Fall 2025

- Co-developed a digital presentation explaining the general principle of CRISPR-mediated gene editing for high school students in the Lewiston-Auburn area in Lewiston, Maine

LEADERSHIP & COMMUNITY ENGAGEMENT

Bates College Women's Varsity Swim Team, Lewiston, ME 2022-2025

- Captain: 2025-2026
- NESCAC Winter All-Academic Team: 2022, 2023
- Train fall and winter and compete regionally

Bates College Athletics Volunteer, Lewiston, ME 2023-2024

- Mentored Lewiston/Auburn elementary and middle school students during Aspirations Days, College Awareness Week, Wellness Week, and National Girls and Women in Sports Day.
- Assisted in community engagement events

SKILLS

Laboratory Skills: microscopy, bacterial cultures, DNA and RNA extraction and purification, PCR and qPCR, DNA sequencing, Excel data analysis, MATLAB, scientific writing and communication, Microsoft Office with proficiency in Excel.