

Colton Bauml

GRADUATE STUDENT CANDIDATE

Data Intensive Biology lab of the University of California, Davis

🗨️ He/Him | ✉️ ccbauml@ucdavis.edu | ☎️ 0000-0002-5926-7792 | 📱 ccbauml | 🌐 colton-bauml

I am deeply engaged in bioinformatics and mentorship. I excitedly wrangle data, craft software, and create dynamic mentorship opportunities.

Research Interests

- Bioinformatically exploring the world of big, public data in new and interesting ways.
- Combining scientific domains to create a pleasant end-user experience.
- I have overcome many obstacles to be where I am today and I am just happy to be here.

Education

Doctor of Philosophy

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

- Bioinformatics and Computational Biology

Massachusetts, USA

2021 - Present

Bachelors of Science

UNIVERSITY OF WASHINGTON

- Molecular Biology
- Computer Science Minor

Washington, USA

2015 - 2019

Associate of Science

GREEN VALLEY COMMUNITY COLLEGE

- Biology Honors Track

Oregon, USA

2013 - 2015

Research Experience

Graduate Researcher

MIT COMPUTATIONAL BIOLOGY LAB

- Developed scalable pangenome analysis tools for microbiome studies

Cambridge, MA

2021 - Present

Research Assistant

UW MOLECULAR SYSTEMS LAB

- Investigated protein interactions in cancer pathways

Seattle, WA

2017 - 2019

Undergraduate Intern

GENOMICS CENTER, UW

- Analyzed RNA-seq datasets for plant stress tolerance research

Seattle, WA

2016 - 2017

Tutor

GREEN VALLEY CC

- Subjects included Organic Chemistry, Calculus, and Physics

Green Valley, OR

2013 - 2015

Professional Service

Workshop Organizer

BIOINFORMATICS SUMMER BOOTCAMP

MIT

2023 - Present

Mentor

UNDERGRADUATE RESEARCH MENTORSHIP PROGRAM

MIT

2021 - Present

Volunteer

COMMUNITY SCIENCE OUTREACH

University of Washington

2015 - 2018

Community Involvement

Founding Member

STUDENT BIOINFORMATICS SOCIETY

MIT

2021 - Present

Volunteer

SCIENCE FAIR MENTOR PROGRAM

Seattle, WA

2016 - 2018

Chair

UNIVERSITY CODING CLUB

University of Washington

2017 - 2019

Funding and Grants

National Science Foundation Fellowship

NSF

MIT

2022 - 2025

Undergraduate Research Grant

UW

University of Washington

2017 - 2018

Merit Scholarship

GREEN VALLEY COMMUNITY COLLEGE

Green Valley CC

2014 - 2015

Honors and Awards

Dean's List

FOR ACADEMIC EXCELLENCE

University of Washington

June 2019

Best Research Presentation

STUDENT BIOINFORMATICS CONFERENCE

MIT

April 2023

Excellence in Teaching Award

UNDERGRADUATE TEACHING PROGRAM

University of Washington

May 2018

Skills

Programming Languages

PYTHON, R, JAVA, C++

Data Analysis Tools

PANDAS, NUMPY, GGLOT2

Version Control

GIT/GITHUB

Text Editors

RSTUDIO, PYCHARM

Presentations

Pangenomics Workshop

WORKSHOP LEAD AND ORGANIZER

MIT

July 2024

Advances in Microbial Genomics

INVITED LECTURE TO GRADUATE STUDENTS

Data-Driven Biology

KEYNOTE SPEAKER AT BIOINFORMATICS CONFERENCE

University of Washington

March 2023

Cambridge, MA

September 2022