

Kenneth Mitchell

Harvey Mudd College
Mathematical and Computational Biology
Philosophy

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Who am I?

I am a Junior undergraduate student pursuing a double major in Mathematical and Computational Biology at Harvey Mudd College and Philosophy at Claremont McKenna College. I am interested in any and all cross sections of these field. Beyond my extensive coursework, I am extremely involved in college extracurriculars. I help grade, tutor, and design many introduction classes at HMC. I have also contributed over a year of time to the HMC Bee Lab, and am currently in the process of publishing our findings.

I want to heal the world with science, and am always looking for the next problem to tackle.

Education

- B.S. Harvey Mudd College Expected May 2024
- B.A. Claremont McKenna College Expected May 2024

Work Experience

- Positions at Harvey Mudd College:
 - Director of Operations, Biomakerspace March 2022 - Present
 - Writing Center Tutor May 2022 - Present
 - AE Biology Tutor May 2022 - Present
 - Research Assistant, Bee lab May 2021 - Present
 - Intro Biology Grader and Tutor January 2022 - May 2022
 - Intro Computer Science Grader and Tutor September 2021 - December 2021
 - Social Media Intern October 2021 - May 2021
 - Wellness Rep August 2020 - June 2021
- Head Cook, Diamond Concessions May 2018 - Aug 2019

Presentations

- International Union for the Study of Social Insects, San Diego CA, "Turtle Ant Movement and Nest Choice on Modular Tree Branches", June 2022

Publications

- Turtle Ant Movement and Nest Choice on Modular Tree Branches In Progress

Awards

- Dean's List x 3

Fall 2021, Spring 2021, Spring 2022

Skills and Hobbies

References Available For All

- Biology
 - QPCR, Sanger Sequencing, Northern/Southern/Western Blotting, EMSA, DNase Footprinting, CHIP, Plasmid Transformation
 - Experimental Design for Publications and Publication-Standard Writing
 - Analyzing Biological Systems Through Experimental Design, Especially Using Molecular Techniques
- Computer Science
 - Python, R, Java
 - Machine Learning (Pytorch, SciKit Learn, Supervised, Unsupervised, and Reinforcement Learning)
 - Agent-Based Modelling of Biological Systems
 - Data Analysis and Visualization in R
- Mathematics
 - Differential Equation Modelling of Infectious Diseases and Population Dynamics
 - Statistical Theory and Inference of Experimental Data Sets
 - Applications of Game Theory to Biological Systems for Stability Analysis
- Philosophy
 - Strong Academic Writing and Communication
 - Public Speaking and Teaching
 - Argument Building and Analysis
- Hobbies
 - Creative Writing, Worldbuilding, and Cartography - Facilitated through weekly workshops.
 - Podcasting - In the planning stages of a STEM-focused podcast where my co-host and myself break down important academic papers to a more general audience.
 - Board Games - Plan and host weekly meetings for self-started club of up to 20 participants per week.
 - Biking, Running, Hiking, Table Tennis, Cooking, Baking.