

# Elizabeth Johnson

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## EDUCATION

**Pomona College**, Claremont, CA

May 2024

B.A, Intending Computer Science, Minor in Biology (3.94/4.00 GPA)

- Pomona College Scholar – top 25% of class (Fall '21, Fall '20)

### Relevant Coursework

- Spring '22 – Data Structures and Advanced Programming, Linear Algebra, Computer Science for Inquiry, Data Analysis for Life Sciences
- Intro Genetics, Intro Cell Biology and Cell Chemistry, General Chemistry, Discrete Math and Functional Programming, Intro to Biostatistics, Intro to Computer Science in Python

## SKILLS

Programming Languages: Python (Intermediate), Java (Beginner), R (Beginner)

Tools: Visual Studio Code, Eclipse, RStudio

Development: HTML5/ CSS/ JavaScript (Beginner)

Languages: Chinese (Intermediate)

## PROJECTS

### Identifying Intrinsically Disordered Proteins from Primary Sequences

January 2022 – May 2022

(<https://tinyurl.com/p-rotein>)

- Collaborating with 6 students to build and train a machine learning model to determine if an amino acid sequence is an intrinsically disordered region using Pandas, Scikit-learn, TensorFlow
- Utilize random forest classifiers to further evaluate whether the sequence input is a disordered protein

### Sagehen Sprint

September 2021 – December 2021

(<https://tinyurl.com/sagehensprint>)

- Created online web game of Pomona College's mascot, Cecil the Sagehen, using HTML and p5.js
- Implemented voice classifier with Teachable Machine to allow user to control game using voice commands, used Procreate to create original game graphics such as character animation and background

## EXPERIENCE

**Pomona College**, Claremont, CA

*Discrete Math and Functional Programming Teaching Assistant*

January 2022 – Present

- Tutor 38 students in conceptual math and computing concepts and grading homework sets

*Intro to Genetics Teaching Assistant*

September 2021 – December 2022

- Assisted 35 students with performing laboratory techniques and procedures

*General Chemistry w/ Lab Mentor*

January 2021 – June 2021

- Tutored 20 students with chemistry concepts, conducting weekly tutoring sessions, grading homework sets.

**Katie Porter for Congress**, *Field Organizer Intern*, Irvine, CA

March 2020 – Nov 2020

- Trained over 150 volunteers over Zoom on phone bank software to make calls aimed at collecting voter data on policy positions, support of Rep. Porter, and increase voter turnout

## AWARDS

### Pomona College RAISE & Chen-Yidan Endowed Fund Recipient

June 2021 – August 2021

- Created a Chinese narrated video essay explaining my art piece, "Stories Within Us"
- Received \$4300 to study Chinese at Beloit College Center for Language Studies

### US Speed Skating

- 2020 Amateur Speed Skating Union Foundation- Winner of \$2,500 Medallion Scholarship
- 2018 US Olympic Trials Qualifier- Women's Short Track Speed Skating
- 2017 -19 US Junior World Team Member - Women's Short Track & Long Track Speed Skating