Ellen Persson

Undergraduate Student

Third-year undergraduate pursuing an Engineering degree at UC Berkeley with experience in multiple relevant programming languages, as well as a strong foundational knowledge of data science and statistics and a passionate interest in mathematics. Competent instructor, with more than five years of experience engaging with students in STEM fields.



nellepersson@gmail.com

925-885-9112

Q

Berkeley, California

(7)

github.com/epersson1

SKILLS

R

Python

Java

SQL

Data Analysis

Data Visualization

Matlab

Public Speaking

LANGUAGES

English

Full Professional Proficiency

Swedish

Full Professional Proficiency

French

Professional Working Proficiency

INTERESTS

Baking

Ultimate Frisbee

Dungeons and Dragons

EDUCATION

B.S. in Engineering Mathematics and Statistics

University of California, Berkeley

08/2018 - Present

Courses

- Data Structures (A+)
- Discrete Math (A+)
- Concepts of Probability (A+)
- Principles & Techniques of Data Science (A+)
- Linear Algebra (A+)
- Numerical Analysis (A+)
- Introduction to Real Analysis (A)

GPA: 4.00

WORK EXPERIENCE

Lead Teaching Assisstant

UC Berkeley

08/2019 - Present College of Letters and Science: Department of Data Science

Achievements/Tasks

- Instructed large groups of 60 students in weekly labs and smaller groups of ~6 students during discussion sections in programming and statistical concepts.
- Developed course content such as homework and projects designed to assess student knowledge and stimulate learning.
- Assisted in the restructuring required to move a course of over 1000 students fully online, including techniques to engage students in a new learning environment.

Tutor

Kumon Math and Reading

06/2016 - 01/2019

An educational network to teach mathematics and reading primarily for young students.

Achievements/Tasks

- Worked with students between the ages of 5 and 15 to teach mathematics and critical reading skills.
- Trained four other tutors on techniques in student engagement and teaching style.
- Maintained database of students' scores on weekly homework assignments, quizzes, and examinations.

ORGANIZATIONS

Tau Beta Pi Engineering Honor Society (01/2019 - Present)

UC Berkeley Women's Ultimate Frisbee Team (08/2018 - Present)

PERSONAL PROJECTS

Basic version control system (11/2019 - 12/2019)

- Designed and implemented "Gitlet" in Java, a simpler version of the widely used software Git.
- Supported saving and restoring backups, viewing history, maintaining related sequences of commits, and merging changes made in different sequences.

Enigma Machine (10/2019 - 11/2019)

Implemented a working Enigma machine, as invented by Alan Turing, to encode and decode messages in Java using various data structures to represent the physical parts of the original machine.