

ALICIA LUENGO

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EDUCATION

University of California, Berkeley

December 2015 (Expected)

B.A. in Computer Science and Math (Double Major)

Technical GPA: 3.57

EXPERIENCE

Head TA for CS61AS

Fall 2015

Structure and Interpretation of Computer Programs (Self-Paced)

Racket/Scheme

- Oversaw the course revamp to change the programming language of the course from Scheme to Racket. Rewrote textbook courseware, discussion worksheets, and projects to be in Racket.
- Ran lab three times a week, and held discussion and office hours weekly.
- Carried out administrative tasks such as maintaining backend scripts, delegating grading tasks, and running weekly staff meetings.

TA for CS61B

Spring 2015

Data Structures

Java

- Developed and QAed course material including discussion worksheets, exam questions, projects.
- Held a guest lecture on disjoint sets, weighted quick union, and path compression.

TA for CS61AS

Fall 2014

Structure and Interpretation of Computer Programs (Self-Paced)

Scheme

- Received the Outstanding GSI Award for this position

PROJECTS

Gitlet

Spring 2015

With fellow TA Joey Moghadam, developed the project Gitlet for the Data Structures course CS 61B. Project had students write a version control system similar to Git in Java.

LIFC Compiler

Summer 2014

Wrote a compiler in C for the homebrew language LIFC (Lisp syntax/C semantics). Compiler parsed LIFC code, built ASTs, and generated equivalent MIPS assembly language code. Written for the Machine Architectures course CS 61C.

Knots

Spring 2014

Worked with Professor Carlo Sequin to generate mathematical knots using Python scripts and the 3D design software Rhino.

RELEVANT COURSEWORK

Efficient Algorithms and Intractable Problems (CS 170)

Artificial Intelligence (CS 188)

Machine Learning (CS 189) (IP)

Operating Systems (CS 162) (IP)

Linear Algebra (Math 110)

Real Analysis (Math 104)

Numerical Analysis (Math 128A)

Abstract Algebra (Math 113)

LANGUAGES

Programming: Lisp (Proficient), Java (Proficient), MatLab (Proficient), Python (Familiar), C (Familiar)

Other: Spanish (Native), French (Conversational)