

# Rachel De Jaen

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## EDUCATION

University of California, Berkeley

Expected May 2021

B.A. of Computer Science, B.A. of Spanish (concentration: Hispanic Linguistics)

University of Washington, Seattle, WA - UWHS Non-Matriculated Student

Fall 2015 - Spring 2016

**Relevant Coursework (in progress):** Intro to Programming, Data Structures and Algorithms, Computer Science Pedagogy, Hispanic Linguistics, Discrete Math and Probability Theory, Linear Algebra and Circuit Design, *Machine Structures, Efficient Algorithms, Socio-/Psycholinguistic Approaches to Bilingualism, Foreign Language Acquisition*

## EXPERIENCE

IT & Data Management Assistant - Berkeley, CA

July 2018 - Present

Worked under supervision of Dr. Mary West, PhD, in the CIRM/QB3 Shared Stem Cell Facility and the High-Throughput Screening Facility

- Maintained a network of workstations and microscopes; ran updates and handled server failures
- Onboarded researchers on remote access to [IncuCyte ZOOM](#) and [Columbus](#) image analysis software
- Developed script to identify lost data within a large database after a server failure
- Currently working on an essential method of batch exporting [OME-TIFF](#) files to third-party analysis software

Dell EMC Isilon Extern - Seattle, WA

January 2018

Extern at Dell Emerging Technologies in Seattle, WA

- Shadowed Bruce Cronquist, a Learning Development Professional, and learned about the technical training of engineers and developers within a growing multinational industry

Eastlake Bar & Grill - Seattle, WA

Summer, Winter 2017

Host and Busser

- Seated customers, cleaned tables, brought food out to customers, and reset tables for the next service
- Reduced restaurant labor costs by taking on multiple roles simultaneously
- Established synchronization among staff by coordinating with management and delegating tasks

University of Washington Medical Center - Seattle, WA

Summer 2016, 2017

Volunteer

- Transported patients between clinics, rounded up wheelchairs, and delivered specimens to laboratories
- Increased efficiency throughout the hospital by being flexible and adaptable

## TEACHING - UC Berkeley EECS Department

CS 61A: Structure and Interpretation of Computer Programs

January 2018 - Present

400+ hours teaching as a Course Staff Mentor, One-on-One Tutor, and Academic Intern

- Held bi-weekly group tutoring sections, graded assignments, proctored exams, and held review sessions
- Created individualized lesson plans for each class including short lectures and original practice problems
- Developing a series of conceptual guides ([rdejaen.github.io](#)) for students in the course
- One of four out of 350+ students to receive the Outstanding Academic Intern Award for demonstrating significant student impact during the Spring 2018 semester

## PROJECTS

[documentation.cs61a.org](#) (private repo)

Fall 2018

- Currently working on a central site to publish documentation on all the software developed for CS 61A
- Allows other CS courses at UC Berkeley and other universities to access and learn about our software

[rdejaen.github.io](#) ([rdejaen.github.io](#))

Summer 2018

- Self-taught HTML and CSS to build a static personal website for organizing the resources and supplemental materials I've developed for students in CS 61A

Bear Maps (private repo)

April 2018

- Implemented the back end of a web mapping application which lets users find the shortest path between two locations in Berkeley, CA using data from OpenStreetMap
- Considered efficiency benefits of different data structures and graph search algorithms

## SKILLS AND INTERESTS

**Computer Languages and Skills** Proficient/Familiar: Java, Python, Git, Scheme, JUnit, LaTeX, SQL, HTML, CSS

**Languages:** English (native), Spanish (working proficiency)

**Interests:** Education, computational biology, linguistic science, software development, community service