

# Anna Cardenas

2634 Virginia St, Berkeley, CA 94720-2292  
alcarden4@berkeley.edu  
(209) 968-1342

## Education

---

### University of California, Berkeley

Degree: B.A Computer Science, Cognitive Science GPA 3.3 May 2018  
Honors: Distinction in Honors, Amigos Unidos Scholarship Winner  
Coursework:

- Structure and Interpretation of Computer Programs
- Advanced Programming & Data Structures
- Cognitive Neuroscience
- Discrete Mathematics and Probability Theory
- Intro into Artificial Intelligence
- Product Management

## Technical Qualifications

---

- **Programming:** Proficient in Java, Python, SQL, HTML, JavaScript  
Knowledgeable in Mathematica, C
- **Projects**
  - *Interactive Berkeley Map:* Interactive search map for locations on the Berkeley Campus
  - *Web Application Survey:* Coded and Implemented Mechanical Turk surveys for Harvard research
  - *Database System:* Created a SQL like database system in Java
  - *Schoolfeed:* Android and IOS app that served as the school newspaper
  - *Blinky – Oski:* 3D printed Oski keychain with implemented GPS signaling to help students find keys when they are lost
  - *Gitlet:* Version-control system built to mirror Git.
  - *Ants Vs. Bees:* Tower defense game inspired by Plants Vs. Zombies
  - *Scheme:* Built a scheme interpreter in python
  - *Yelp Review:* A visualization of restaurant ratings using machine learning and the Yelp academic dataset
- **Experience**
  - *Aging 2.0 Product Development and Analytics Intern* (Summer 2017)
    - Worked on implementing an internal database with NLP tools as well as integrating into a CRM database
  - *Chan Zuckerberg Initiative Machine Learning Intern* (Summer 2017)
    - Helped to build a machine learning algorithm to best guess diagnostic medical codes for veterinarians so as to ensure better data gathering, sharing, and easier encoding for global impact
  - *HopeLab User Research Intern* (Spring 2017)
    - UX Research on evidence based interventions for smoking cessation in pregnant women in regards to HopeLab's upcoming Nurse Family Partnership (NFP) product
  - *CyBEAR:* Developed cyber security (GEN CYBER) curriculum and STEM curriculum for a NSA and NSF sponsored high school summer camp: CyBear (2015)

- Led specific lectures in programming Python
- Designed projects for students to pursue electrical engineering using Raspberry Pi's
- Collected and entered educational research data to undergo statistical modeling
- **Language:** Basic speaking, reading, and writing skills in Spanish

## Research and Publications

---

- **REU Intern within SEAS: School of Engineering and Applied Sciences at Harvard University:** (Summer 2016)
  - Researched human perception in relation to mathematical cognition by creating and running experiments based in JavaScript with the use of Mechanical Turk
  - **In Review**
    - Hart, Y., Dillon, M. R., Marantan, A., **Cardenas, A. L.**, Spelke, E. S., & Mahadevan, L. (in review). The statistical nature of geometric reasoning.
- **Flannery Lab Undergraduate Researcher:** Attributed to the research and study of retinal degeneration (2015 - 2016)
  - Maintaining the rodent facility and creating strains of mouse breeders
  - Creating a search based program that implements efficient runtime in determining unique DNA sequences from thousands of sequence queries
- Cardenas, Anna L. "**Computational Computer Algorithms.**" *The Eureka Scientia* 2.1 (2015): n. pag. Print.

## Leadership and Community Involvement

---

- **Fung Fellowship for Wellness and Technology Innovations** (2016 – present)
  - Fellowship geared towards learning how to advance novel, real-world solutions that change outcomes and lives through a new model of radical, corporate–campus partnership; cross-disciplinary, participatory learning; and immersion in specific communities.
    - Progressing skills in product development, product design, customer research, team building
- **Clubs** (2014 – present)
  - Confi@Cal: National network that promotes women's health and education
  - CS Scholars: Cohort of underrepresented students passionate in pursuing computer science
  - Paws and Claws: An organization for students to help animals in need
- **WiSE:** Women in Science and Engineering (2014 – 2015)
  - Community outreach to help foster the encouragement of women in STEM.
  - Organized a cohort of women to help prepare an academic panel event aimed at supporting women in science
- **Crafting Consent Fellow:** (2016 - 2017) Year long fellowship through the Berkeley Hillel for women to explore the issues of consent within contemporary topics, such as body, voice, work, and relationships.
  - Run workshops to bring consent awareness on the campus of UC Berkeley
  - Learn about the Jewish text within the lens of consent
  - Community involvement by going to a local school to teach students about consent
- **Stanford School of Medicine: Medicine X Finalist** (2016)
  - Medicine X is a non-profit, academic conference held each September on the Stanford University campus. It is a catalyst for new ideas about the future of medicine and emerging technologies.