

## Skills

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**Programming** Python, R, HTML/CSS, Javascript, LaTeX  
**Languages** English, Chinese (Fluent), Spanish (Beginner)

## Work Experience

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### Valador, Inc. (supporting NASA Office of the Chief Information Officer)

Houston, TX

DATA ANALYST

Mar. 2017 - Present

- Prototype and deliver data analytics and visualization products ranging from regression models to natural language processing and data visualization.
- Give presentations and talks to further agency-wide knowledge-sharing and capabilities
- Plan and facilitate meetings and conversations about innovation and technology
- Co-supervise interns and manage a center-wide collaboration space

### Intervarsity Christian Fellowship/USA

Madison, WI

URBANA REGISTRATION ANALYST

May 2015 - Feb. 2016

- Designed and distributed reports and audits for a conference with 16,000 registrants
- Used SQL scripts and vba macros to streamline and automate report analysis and distribution
- Managed and tracked over \$800,000 in discount and scholarship distribution
- Provided data-driven recommendations for shift-scheduling and other decisions
- Trained and managed a team of technical solutions volunteers on-site

## Internships and Research

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### Perspectives Study Program

Pasadena, CA

DATA ANALYSIS INTERN

Oct. 2014 - Apr. 2015

- Wrote SQL queries to obtain data requested by program staff
- Analyzed and manipulated data in Microsoft Excel
- Used d3.js to visualize data

### City of Hope Comprehensive Care Center

Duarte, CA

CLINICAL RESEARCH INTERNSHIP

Oct. 2014 - Apr. 2015

- Worked with Dr. Sumanta Pal
- Created spreadsheets of data based on patient information
- Assisted with data analysis, interpretation, and manuscript preparation

### California Institute of Technology

Pasadena, CA

RESEARCH TECHNICIAN

Oct. 2013 - Jun. 2014

- Worked with Professor Julia Kornfield and Dr. Amy Fu
- Research objective: Understanding the mechanism of a ophthalmic therapeutic, in collaboration with Allegro Ophthalmics
- Designed and implemented experimental cell culture protocols
- Established a bioinformatics data analysis pipeline using Python, bash, and R

### California State University, Los Angeles

Los Angeles, CA

UNDERGRADUATE RESEARCH ASSISTANT

Sept. 2013 - Apr. 2015

- Worked with Professor Ji Yun Son and Professor James Rudd (CSULA)
- Research objective: understanding how to present general chemistry concepts to maximize understanding
- Investigate the relationship between the order of examples being presented and student learning
- Mentored and trained an undergraduate researcher

### California Institute of Technology

Pasadena, CA

UNDERGRADUATE RESEARCH FELLOW

Jun. 2013 - Feb. 2012

- Worked with Professor Julia Kornfield and Dr. Amy Fu (Caltech)
- Research objective: To design and implement a 3-D cell migration assay for hydrogel-encapsulated cells
- Established protocols for (1) determining viability of cells encapsulated in a gel (2) long-term visualization of cells encapsulated in a gel (3) assisting fibroblast proliferation in a heparin-based hydrogel.
- Established a protocol to characterize fibroblast migration in a heparin-based hydrogel

# Talks and Presentations

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## Data for Democracy Hangouts

PANEL ORGANIZER AND MODERATOR

- Organized and moderated a panel showcasing women doing data science work from different industries and geographic locations

Virtual

June 2017

## NASA Datanauts Water Cooler Event

SPEAKER

- Presented an introduction to problem-solving Pythonically for data science work

Virtual

May 2017

## Houston Tech Meetup

SPEAKER

- Presented on data science efforts across NASA

Houston, TX

May, 2017

## JSC Data Science Day

SPEAKER

- Gave a introduction to programming for data science

Johnson Space Center (Houston, TX)

Apr. 2017

## JSC Data Science Day

SPEAKER

- Presented on my work developing a NASA-internal domain classification and concept extraction service

Johnson Space Center (Houston, TX)

Apr. 2017

## NASA Big Data Big Think

PRESENTER

- Presented on my work developing a NASA-internal domain classification and concept extraction service

Jet Propulsion Laboratory (La  
Canada Flintridge, CA)

Apr. 2017

## Internal Valador Brown Bag

CO-PRESENTER

- Presented on my team's work supporting data visualization and analytics at NASA

NASA HQ (Washington, D.C.)

Jan. 2017

## NASA Agency Innovation Day

PANEL PARTICIPANT

- Participated on a panel about innovation and collaboration at Johnson Space Center

NASA Johnson Space Center  
(Houston, TX)

Nov. 2016

## NASA Workforce Planning Workshop

PRESENTER

- Presented the results of our analytics team's regression modeling

NASA Goddard Spaceflight Center  
(Greenbelt, MD)

Oct. 2016

## LaunchCode CS50x Miami Kickoff

GUEST SPEAKER

- Spoke about my career path and some examples of how NASA uses data

Virtual

Aug. 2016

## Innovation Training Course

GUEST LECTURER

- Presentation and facilitation of a discussion on innovation and the aesthetics of the physical workplace

NASA Johnson Space Center  
(Houston, TX)

May 2016

## NASA Big Data Big Think

POSTER PRESENTER: INTERNAL POSTER SESSION

- Data Visualization: Representations to Speed Insight and Understanding

NASA Johnson Space Center  
(Houston, TX)

May 2016

## City of Hope Comprehensive Cancer Center

POSTER PRESENTER: INTERNAL POSTER SESSION

- Changes in relative conditional survival (RCS) in de novo metastatic urothelial carcinoma (mUC): A Surveillance, Epidemiology, and End Results (SEER) database analysis

Los Angeles, CA

Dec. 2014

## American Chemical Society National Meeting

ORAL PRESENTER

- Evaluating the Chemistry Triplet: Does the order of presentation matter?

San Francisco, CA

Aug 2014

## CSU Honors Conference

ORAL PRESENTER

- Evaluating the Chemistry Triplet: Does the order of presentation matter?

San Bernadino, CA

Apr. 2014

### Caltech SURF Seminar Day

ORAL PRESENTER

- Facilitating corneal wound healing: Establishing a 3-D cell migration assay

Pasadena, CA

Aug. 2013

### CSU Honors Conference

POSTER PRESENTER

- Synthesis of a Novel Mucoadhesive Hydrogel Drug Delivery System

San Bernadino, CA

Apr. 2013

### Caltech SURF Seminar Day

ORAL PRESENTER

- Synthesis of Perfluoroalkyl-Poly(ethylene glycol)- $\beta$ -Poly(acrylic acid)

Pasadena, CA

Oct. 2012

### Caltech SURF Seminar Day

ORAL PRESENTER

- Perfluoroalkyl-Poly(Ethylene Glycol)-Poly(acrylic acid) Tri-block Copolymers for Mucoadhesive Drug Delivery

Pasadena, CA

Oct. 2011

## Community Service and Committees

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2016 **Program Committee, Creativity track co-chair**, Passion Talks

San Francisco, CA

2016-present **Co-organizer**, Girls Coding Club (Meetup of women who program)

Houston, TX

2016-present **Co-organizer**, Houston Data Visualization Meetup

Houston, TX

2016-present **Google hangouts co-host**, Data for Democracy

Virtual

## Education

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### California State University, Los Angeles

B.S. CHEMISTRY, MAGNA CUM LAUDE

- Inaugural recipient of the CSULA Honors College Edison Scholarship

Los Angeles, CA, USA

June 2009 - June 2014