

Skills

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

Work Experience

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

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

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

JPL (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

Johnson Space Center (Houston, TX)

Nov. 2016

NASA Workforce Planning Workshop

PRESENTER

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

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 Hyrogel Drug Delivery System

San Bernadino, CA

Apr. 2013

Caltech SURF Seminar Day

ORAL PRESENTER

- Synthesis of Perfluoroalkyl-Poly(ethylene glycol)- β -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

Writing

Conditional Survival in de novo Metastatic Urothelial Carcinoma

SECOND AUTHOR

- Data analysis of the Surveillance, Epidemiology and End Results (SEER) dataset to understand survival in Metastatic Urothelial Carcinoma.

PLOS One

August 2015

Asymmetric translation between multiple representations in chemistry

FIRST AUTHOR

- Published my undergraduate thesis research on the teaching and learning of chemistry in a peer-reviewed journal.

International Journal of Science
Education

May 2015

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

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