

Sydney Pun

RESEARCH DATA ANALYST · UNDERGRADUATE RESEARCHER

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Objective

Deeply knowledgeable Research Data Analyst and Undergraduate Researcher seeking a Research Data Analyst position; coming with 1+ years of collecting data and creating data visualizations. Also bringing outstanding organizational and problem solving skills.

Education

University of California, Riverside

Riverside, CA

B.S. IN COMPUTER SCIENCE

March 2021

- **Coursework:** Artificial Intelligence, Database Management Systems, Data Analysis Methods, Design of Operating Systems, Information Retrieval, Machine Learning, Virtual Reality

Skills

Programming Languages C/C++, Python, JavaScript, HTML/CSS

Technologies/Technical Skills Airtable, ArcGIS, Django, Drupal, Git, LaTeX, Microsoft Office, React Learning: Beautiful Soup, Elasticsearch

Work Experience

Center for Social Innovation, UCR (University of California, Riverside)

Riverside, CA

RESEARCH DATA ANALYST

August 2021 - PRESENT

- Created and led an **ArcGIS** Data Dashboard project that is a data hub about the state of 7 communities in the Inland Empire.
- Proficient with **Airtable** and created 3 databases using this application to depict the innovation ecosystems in the Inland Empire as well as the Californian immigration policies.

WEB DEVELOPMENT STUDENT ASSISTANT

February 2021 - August 2021

- Built and maintained 8 **WordPress** websites using **Elementor** and **HTML/CSS** and increased site traffic by **18%**.
- Ran weekly **Wordfence** checks for 8 websites thus minimizing hacker attacks from **2.3% to 1.5%**.
- Proficient in **Drupal** and posted weekly blog posts, news articles, and designed tiles on the homepage of socialinnovation.ucr.edu.

University of California, Riverside

Riverside, CA

UNDERGRADUATE RESEARCHER

October 2020 - PRESENT

- Part of a team of 3 using **Hi-Glass** and **IGV.js** to create Hi-C and bed file 2D and 3D visualization tools.
- Given the task of creating a multi-resolution heat map that can visualize contact matrices of several billion points with fast zooming and panning written in **JavaScript**.
- Developed an easy-to-use user interface that allows users to be able to drag and resize Hi-C visualizations using **React Grid Layout**.

Mt. San Antonio College Presentation Services

Walnut, CA

STUDENT ASSISTANT IV

- Troubleshoot technical issues that professors had over the phone and recorded their issues in a database.
- Cart trained and provided assistance to leading technicians to fix audio and visual equipment such as speakers and projectors on campus.
- Created a training handbook to teach new student employees tasks such as proper phone etiquette, cleaning the projector filters or resetting the **Extron** equipment.

Projects

R'Match (<https://github.com/CS178A-B/final-project-jmsv>)

Riverside, CA

SENIOR CAPSTONE PROJECT

October 2020 - March 2021

- Built an undergraduate faculty matching tool that allows students to find jobs on campus and professors to post positions online and to select from a pool of interested students
- Used **Typeorm** to write backend APIs that allow students to post, delete, and update their work experiences and tested these APIs with **Jest**
- Scaled new features and expanded user interfaces using **React**, **TypeScript**, and **Formik**

Global Wildfire Analysis (<https://github.com/sydneyapun/cs105-prj-phase3-potato>)

Riverside, CA

PERSONAL PROJECT

January 2020 - March 2020

- Built a web crawler with Python's **Beautiful Soup** to scrape annual wildfire recordings from the National Interagency Fire Center
- Built a Linear Regression Model to predict the wildfire trends in the Australia, Brazil, and the United States in 2020
- Trained a Random Forest Classifier to predict wildfire causes in the United States in 2020 and illustrated results with a Heat Map