Sydney **Pun**

RESEARCH DATA ANALYST · UNDERGRADUATE RESEARCHER

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Objective

Deeply knowledgeable former Research Data Analyst and Undergraduate Researcher; coming with 1+ years of collecting data and creating data visualizations.

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, Learning: SQL

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

Work Experience

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

RESEARCH DATA ANALYST   *August 2021 - December 2021*

- Built and led a Data Dashboard project using **ArcGIS Experience** to create a web application that combines data visualizations such as bar charts, pie charts, and data tables with GIS mapping to depict the state of seven communities (i.e. State of Innovation) in the Inland Empire.
- Authored documentation for this Data Dashboard project which teaches colleagues with no **ArcGIS** experience, how to create certain data visualizations and how to navigate the **ArcGIS** website.
- Proficient in **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 the rate of malware injections 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 - December 2021*

- Worked in a team with 2 other researchers to create 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   *February 2018 - August 2018*

- Troubleshot 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**.

Global Wildfire Analysis (https://github.com/sydneypun/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 in **Python** to predict the wildfire trends in 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.