REBECCA HU

(909) 631-6309 | Reh016@ucsd.edu | TheRebeccaHu.com | Github.com/HuRebecca

EDUCATION

University of California, San Diego	Class of 2020
Major: Data Science, B.S. Minor: Political Science	GPA: 3.73

Chancellor's Research Excellence Scholarship recipient

EXPERIENCE

UNDERGRADUATE RESEARCHER IBM-CMI ARTIFICIAL INTELLIGENCE FOR HEALTHY LIVING (AIHL)   **SEPT 2018-PRESENT**

AIHL is a collaboration between IBM and the UC San Diego's Center for Microbiome Innovation

- Write normalization scripts to clean large files of public microbiome metadata from an open-source microbial study management platform, QIITA, with Python pandas and Jupyter Notebook
- Develop QIIME2 plugins for metadata normalization and EBI study downloader in Linux environment

UNDERGRADUATE RESEARCHER SCHOOL OF GLOBAL POLICY AND STRATEGY (GPS)   **JAN 2019-PRESENT**

GPS at UC San Diego focuses on the study of international affairs, economics, and policy education

- Write Python scripts that use API to grab legislator Tweets to measure and analyze congressional sentiment towards China
- Utilize NLP tools to parse and examine Chinese legal documents for insights into how the Chinese government implements open government information laws (under the supervision of Dr. Margaret Roberts)

DATA SCIENCE FELLOW BUREAU OF LABOR STATISTICS (BLS)   **JUNE 2019-AUGUST 2019**

BLS is a principal statistical agency for the United States Department of Labor in Washington D.C.

- Solved a multiclass, multilabel machine learning problem for classifying job tasks into critical work activities
- Built and coded a natural language text classifier using data from the Occupational Requirements Survey in Python using pandas, Sk-learn, and spaCy libraries

RESEARCH FELLOW HALICIOĞLU DATA SCIENCE INSTITUTE (HDSI)   **SEPT 2018- SEPT 2019**

HDSI at UCSD funds undergraduate research projects that apply data science technique to problems in society

- Help underserved communities make healthy food decisions by using optimization to determine healthy, affordable meals for residents of food deserts in America
- Utilize web scraping, linear programming, and json databases to optimize nutrition and budget with real-world grocery data

SUPPLEMENTAL INSTRUCTION LEADER TEACHING AND LEARNING COMMONS (TLC)   **JUNE 2017-APRIL 2018**

TLC is a hub for UCSD students to gain study skills for success in challenging courses

- Facilitated three weekly sessions for students to study calculus course material and gain study skills
- Created lesson plans unique to the needs of the students by attending courses and submitting detailed notes

EXTRACURRICULAR ACTIVITIES

VICE PRESIDENT OF MARKETING TRITONS FOR SALLY RIDE SCIENCE   **JUNE 2018-PRESENT**

Tritons for Sally Ride Science is an organization that provides STEM outreach to underrepresented youth

- Publicize STEM events for young students by designing digital graphic marketing materials
- Manage social media pages and organization website, and organize STEM-related events and activities for kids

HEAD TECHNICAL EDITOR SALTMAN QUARTERLY   **SEPTEMBER 2016-JUNE 2019**

Saltman Quarterly is an undergraduate-run biological research journal at UC San Diego

- Reviewed and edited articles about groundbreaking biological research for logical inconsistencies and grammatical errors
- Lead a team of technical editors to edit articles and research abstracts for clarity

SKILLS

- Python
- Java
- Javascript
- MATLAB
- R
- HTML
- CSS
- SQL
- PostgreSQL
- Pandas
- Sci-kit learn
- Tableau
- Highcharts
- Git
- Microsoft Excel

RELEVANT COURSEWORK

- Deep Learning for Natural Language
- Data Analysis and Inference
- Data Structures in Python and Java
- Intro to Data Visualization
- Mathematics for Algorithms and Systems
- Intro to Data Management
- Making Policy with Data
- Probability and Statistics
- Web Mining and Recommender Systems
- Optimization for Data Science
- Artificial Intelligence with Statistical Methods