# Zelong Wang

Contact

Address

La Jolla, CA, 92122

Phone

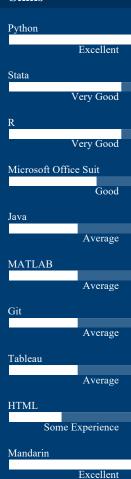
858-539-5564

E-mail

zew013@ucsd.edu

**GitHub/Personal Web** zew013.github.io

#### Skills



Time management

Will learn SOL/NoSOL and

Hadoop systematically this Fall

Excellent

## **Education**

The University of California, San Diego | 2020-Present | GPA:3.98

**B.S** | Data Science

**Related Coursework**: Python, Java, HTML, Data Structures, Data Science Algorithms, Web Scraping, Data Processing, Visualization, Machine Learning, NLP basics, Deep Learning basics.

## **B.S** | Joint Major in Math and Economics

**Related Coursework**: Calculus, Linear Algebra, Numerical Analysis, Optimization, Probability and Statistics, Microeconomics, Econometrics (t and F statistics, Regressions, experiment design, panel data, etc.), Operations Research.

## **Experience**

### Research Assistant | Professor Dale Squires and Professor Richard Carson | Aug. 2022 - Present

- Explore the underlying pattern in terms of international organizations and their membership fees.
- Extract and prepare contribution data from UN reports since 1950 using Python and OCR API.

## CS PACE Program Researcher | UCSD | Apr. 2022 - Present

- Research and review on CS cohort program of the forerunners.
- Design CSE cohort programs and build courses.

#### Research Assistant | Professor Richard Carson | Dec. 2021-Present

- Did literature review and gained background knowledge on discrete choice models and related topics.
- Gathered, arranged, and corrected research data to create representative graphs used for academic paper.
- Performed statistical and qualitative analysis. Wrote code to achieve conditional logit model.

## Data Analyst/Tech VP | Lumnus Consulting (Student Enterprise) | Nov. 2021-Present

- Collaborated with business-unit leaders to identify and prioritize problems.
- Built prediction models based on historical Instagram and Twitter data. Created visualizations and analyses for the team. Delivered project presentations on how we should present our organization on social media.
- Organized team events and fostered team communication.

Data Manager & Builder | Robotics Team | 2018 – 2020 Tutor & Math Team Leader | 2019 - 2021

## **Self-Driven Projects**

#### Forage Data Analytics Virtual Experience programs | Python, Tableau, Excel, Git

- Accenture: After cleaning data anomalies and merging data in Python, created Tableau dashboard that demonstrates relationships between key features. Practiced storytelling and presentation skills by delivering our findings.
- BCG: Deployed automatic EDA using SweetViz. Defined, assigned price sensitivity to each customer. Tested
  hypothesis using permutation test, K-S test, and heat map. Predicted customer churn using Sklearn Random Forest.

## Analysis of Power Outage Status in the Continental U.S. | Python, Excel

• Went through the full process of questioning, researching, data cleaning & EDA, missingness assessment, hypothesis test, baseline model, more feature engineering, final model, and fairness analysis.

#### Indian Crop Production and Indian Climate Analysis | Python, Slides

- Literature review on previous reports about Indian agriculture, pastoralism, and climates.
- Data gathering, processing, interactive visualization using bs4, JSON, Geopandas, Altair, Folium, Plotly.
- Reported findings and provided suggestions.

#### Simple Language Model | Python

- Web scraping for specific books from a public book website. Tokenize corpora.
- Created an N-Gram Language Model that can generate paragraphs resembling the style of an author or a book.

#### Wealth Prediction based on 1991 Survey of Income and Program Participation (SIPP) | R

- Gained background knowledge about data. Applied EDA, feature engineering.
- Incorporated and compared polynomials and splines in GAM. Tested full OLS, Lasso, Ridge, Stepwise regression model and Random Forest model.