

# Fang Yu Chang

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Portfolio: <https://fychang.herokuapp.com>

## DATA ANALYST

Data Analyst with a certificate in Data Science and Visualization from University of California San Diego Extension and 7 years of training in the data processing field. Proven technical and organizational aptitude in data visualization. Qualifications encompass collaborating with medical and retail professionals to identify issues, design models, and implement algorithms. Well versed in presenting to research staff and driving cross-functional collaboration across varied organizational subcultures, and global teams. Skilled in Python, Pandas, SQL, and data visualization tools such as JavaScript, Matplotlib and Tableau. Finds great satisfaction in finding the truth with data analysis.

## TECHNICAL SKILLS

**Languages:** Python, SQL, HTML, CSS, JavaScript, JSON

**Data Manipulation and Visualization:** Pandas, Scipy, Matplotlib, Plotly, D3, BeautifulSoup, Tableau, PySpark

**Database:** PostgreSQL, SQLAlchemy, MongoDB, AWS Data Analytics Services (S3)

**Other:** SPSS, GIT, Flask, Heroku, APIs, Machine Learning, Big Data

## PROJECTS

*Employee Database Management* | <https://github.com/changrita1114/sql-challenge>

- Analyzed salary ranking among different titles and salary distribution in a company.
- Pulled data from six csv files into PostgreSQL to assemble a database of over 300,000 data points.
- Summarized statistics and visualizations created using Python, Pandas, and Matplotlib.

*Pymaceuticals Data Visualization* | <https://changrita1114.github.io/Pymaceuticals/>

- Analyzed changes in tumor volumes with different drug regimens in mice.
- Pulled data from two csv files to assemble a dataset of over 1800 data points.
- Summarized statistics and visualizations created using Python, Pandas, and Matplotlib.

*Citi Bike Analysis* | [https://public.tableau.com/profile/fang.yu.chang#!/vizhome/fyc\\_hw/CitiBikeStory](https://public.tableau.com/profile/fang.yu.chang#!/vizhome/fyc_hw/CitiBikeStory)

- Analyzed changes of Citi Bike usage between 2019 December and 2020 December.
- Pulled data from two csv files which contain over 200,000 data points and analyzed them using Tableau.
- Summarized visualizations in a story created using Tableau.

## EXPERIENCE

### 99 Ranch Market

2019 – 2020

*Cashier and Online Order Administrator*

- Trained 13 new cashiers in business operations, equipment usage, and customer problem resolution leading to improved customer service ratings and cashier processing efficiency.
- Created a detail-oriented procedure for processing different payment transactions and administering online orders.
- Identified pricing errors with products and provided recommendations to reduce future occurrences, resulting in a decrease in such errors.

### Ph. D Course work

2014 - 2018

*Ph. D Candidate*

- Developed, created, and refined data collection methods for subjects to collect data using electroencephalography (EEG), thereby reducing movement interference and resulting in an improvement of data acceptance by 75%.
- Assisted with collecting cognitive data from Parkinson's disease patients at outpatient clinics and the laboratory, playing a critical role in getting the research paper published.
- Implemented pre-processing methods for analyzing EEG data using EEGLAB and ERPLAB for Fukushima Department of Neurology.

## EDUCATION

**Certificate in Data Science and Visualization:** UC San Diego Extension, San Diego, CA

**Doctorate in Neurophysiology:** Fukushima Medical University, Fukushima, Japan

**Masters in Rehabilitation Science:** Chang Gung University, Taoyuan, Taiwan

**Bachelor's in Physical Therapy:** China Medical University, Taichung, Taiwan