

# Chi-Yun Chen

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Location Washington, DC, US

## Projects

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### Data Analysis on US Foodborne Outbreak Incident in 1998–2018 in Python,

- Conducted exploratory data analysis from the dataset provided by CDC.
- Used machine learning model to predict illnesses and hospitalizations.
- Sagemaker Snapshot: [bit.ly/sagemaker\\_FoodOutBreak](https://bit.ly/sagemaker_FoodOutBreak); Medium Post: [bit.ly/cyc\\_medium\\_food](https://bit.ly/cyc_medium_food)

### COVID-19 Vaccination Topic Modeling for Social Media (Facebook and Twitter)

- Used Topic Modeling to conduct Natural Language Processing.

### Social Network Interference in Java

- An API for users to log-in and send message to other users.

## Skills

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|--|-------------------------------|
| • Statistical Analysis in R and Python           | • Machine Learning            |
| • Big Data Technologies in Spark and HDFS        | • Data Mining in Python, SQL  |
| • Natural Language Processing by Topic Modeling  | • Data Wrangling in Python    |
| • Data Visualization in Python, Tableau and QGIS | • Programing in Java, HTML    |
| • Language in English, Chinese and German        | • Experience in AWS Sagemaker |

## Work Experience

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### Contractor | iChemLabs, LLC | Remote, US | Jul 20 – Dec 20

*iChemLabs is a scientific software company that creates affordable and easy to use chemistry software.*

- Analyzed the chemical compound data and wrote the testing code in the Java environment.

### Pharmaceutical Research Assistant | National Yang Ming University | Taipei, Taiwan | Jul 18 – Aug 19

*NYMU is one of the top research institution in medical and biotechnology in Taiwan.*

- Conducted analyses on diverse research datasets on the topic of nanoparticle in cancer therapy.
- Analyze the scientific literature to extract needed data.
- Applied scientific data to the research and developed methods to leverage scientific data in custom-made quantitative frameworks.

### Product Manager and Data Analyst | Innovation Open House (IOH) | Taipei, Taiwan | Mar 16 – Jul 17

*IOH is the biggest education introduction platform in Taiwan users, which cover more than 80% of high school students and the service across Hong Kong, Malaysia, and other countries in Southeast Asia.*

- Analyzed products' data and developed the improvement plan and built an automatic performance evaluation system, which reduced 20% turnaround time.
- Systematized storage and created database of the company.

### Marketing Data Analyst | Innovation Open House (IOH) | Taipei, Taiwan | Jan 16 – Jul 17

- Analyzed website performance data and executed SEO, which increased sessions by 74%.
- Managed FB fans page and website, and achieved 56% increase in fans base.
- Initiated and designed marketing projects, which increased the engagement of FB fan page by 30%.

## Education

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### MS, Data Analytics | George Washington University | Washington DC, US | Jul 20 – present

- Courses: Programing for Data Analytics, Machine Learning, Statistics for Data Science, etc.

### BS, Food Science and Biotechnology | National Chung Hsing University | Taichung, Taiwan | Sep 11 – Jan 16

- Courses: Statistic Methods and Data Analysis, Game Theory, etc.
- Specialization: Food Microbiology and Biotechnology