Contact

Jennifer HY Lin

Programming skills

- Python
- Polars
- Pandas
- Plotly
- Matplotlib
- scikit-learn
- R
- tidyverse
- RMarkdown / Quarto
- SQL
- Tableau
- Git
- GitHub

Data analytics projects

2023	**Pills dataset - Part 2** Text cleaning using Polars & visualising pills with Plotly (Python) Jupyter Lab & RStudio IDE
2023	**Pills dataset - Part 1** Polars and Pandas dataframe libraries & web scraping used for pills dataset from the US National Library of Medicine (Python) Jupyter Lab & RStudio IDE
2022	**Small molecules in ChEMBL database** Polars dataframe library (with Python binding) and scikit-learn used for small molecules from ChEMBL database (Python) Jupyter Lab & RStudio IDE
2022	**Molecular similarities in selected COVID-19 antivirals** Cheminformatics project on molecular similarities between selected COVID-19 antivirals by using RDKit (Python) Jupyter notebook in Anaconda & RStudio IDE
2022	**Long COVID - an update** An update to show co-morbidities with high risk factors to suffer from long COVID - interactive map and PDF data scraping (R & Python) RStudio IDE
2022	**Phenotypes associated with rare diseases** Revealed the most common rare disorders and their associated phenotypic features (R & Python) RStudio IDE & Jupyter notebook in Anaconda
2022	**Natural history of rare diseases - malformation syndrome** Focussed on malformation syndrome and life spans (Python) Jupyter notebook in Anaconda
2022	**Long COVID data in SQL & Tableau dashboard** Diverse long COVID symptoms showcased in SQL and Tableau dashboard. Dbeaver & Tableau Public

2022 **Drugs in rare diseases**
Showed top 10 drugs that used the longest time to develop from FDA's Orphan Drug Product designation database (Python & R)
RStudio IDE & Jupyter notebook in Anaconda

Certification

2022 | 2021 **Data Science Professional Certificate (in Python)**
Coursera - started from 11-9-2021 and completed by 28-1-2022
IBM

Volunteering work

2022 **Rotating Curator for the @RLadiesGlobal community**
@WeAreRLadies - for the week from 24-10-2022 to 29-10-2022 (via invitation by rotating curator team)
Twitter

Work experience

2022 | 2021 **Registered pharmacist**
Unichem Spitfire Square Pharmacy
Canterbury, New Zealand

2020 | 2019 **Registered pharmacist**
Christchurch Hospital Pharmacy
Canterbury, New Zealand

2019 | 2012 **Registered pharmacist**
Calvary Healthcare Kogarah
New South Wales, Australia

2012 | 2008 **Registered pharmacist**
Intern pharmacist in 2007. Community pharmacies from 2008 to 2009. Christchurch hospital pharmacy from 2009 to 2012.
Canterbury, New Zealand

Education

2019 | 2015	**Doctor of Philosophy** University of Sydney - thesis title: The use of computer-aided drug design in small molecule drug discovery New South Wales, Australia
2014 | 2012	**Master of Philosophy** University of Sydney - thesis title: Design, synthesis and testing of novel anti-cancer agents targeting secretary pathway calcium ATPase New South Wales, Australia
2006 | 2003	**Bachelor of Pharmacy** University of Otago Otago, New Zealand

Publications

2022	**Discovery of 2',6-Bis(4-hydroxybenzyl)-2-acetylcyclohexanone, a Novel FtsZ Inhibitor** By Lin H-Y J, Battaje RR, Tan J, Doddareddy M, Dhaked HPS, Srivastava S, Hawkins BA, Al-Shdifat LMH, Hibbs DE, Panda D, Groundwater PW. Molecules. 2022; 27(20), 6993. (IF = 4.927)
2017	**A novel class of thiosemicarbazones show multi-functional activity for the treatment of Alzheimer's disease** By Palanimuthu D, Poon R, Sahni S, Anjum R, Hibbs D, Lin J H-Y, Bernhardt PV, Kalinowski DS, Richardson DR. Eur J Med Chem. 2017; 139: 612-632. (IF = 4.816)
2016	**Identification of agents targeting FtsZ assembly** By Panda D, Bhattacharya D, Gao QH, Oza PM, Lin J H-Y, Hawkins B, Hibbs DE, Groundwater PW Future Med Chem. 2016; 8(10):1111-32. (IF = 3.969)
2015	**Identification of dual PPARα/γ agonists and their effects on lipid metabolism** By Gao Q, Hanh J, Váradi L, Cairns R, Sjöström H, Liao VW, Wood P, Balaban S, Ong JA, Lin J H-Y, Lai F, Hoy AJ, Grewal T, Groundwater PW, Hibbs DE Bioorg Med Chem. 2015; 23(24):7676-84. (IF = 2.881)