

Contact



Programming skills

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

Jennifer HY Lin

Data analytics projects

Pills dataset - Part 3

- 2023 Using Rust for visualisation via Jupyter-Evcxr, Rust, Polars & Plotly
 Jupyter Lab & RStudio IDE

Pills dataset - Part 2

- 2023 Text cleaning using Polars & visualising pills with Plotly (Python)
 Jupyter Lab & RStudio IDE

Pills dataset - Part 1

- 2023 Polars and Pandas dataframe libraries & web scraping used for pills dataset from the US National Library of Medicine (Python)
 Jupyter Lab & RStudio IDE

Small molecules in ChEMBL database

- 2022 Polars dataframe library (with Python binding) and scikit-learn used for small molecules from ChEMBL database (Python)
 Jupyter Lab & RStudio IDE

Molecular similarities in selected COVID-19 antivirals

- 2022 Cheminformatics project on molecular similarities between selected COVID-19 antivirals by using RDKit (Python)
 Jupyter notebook in Anaconda & RStudio IDE

Long COVID - an update

- 2022 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

Phenotypes associated with rare diseases

- 2022 Revealed the most common rare disorders and their associated phenotypic features (R & Python)
 RStudio IDE & Jupyter notebook in Anaconda

Natural history of rare diseases - malformation syndrome

- 2022 Focussed on malformation syndrome and life spans (Python)
 Jupyter notebook in Anaconda
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Long COVID data in SQL & Tableau dashboard

2022 Diverse long COVID symptoms showcased in SQL and Tableau dashboard.
📍 Dbeaver & Tableau Public

Drugs in rare diseases

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

🤝 Volunteering work

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

👛 Work experience

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

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

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

Registered pharmacist

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

Education

Doctor of Philosophy

2019 University of Sydney - thesis title: [The use of computer-aided drug design in small molecule drug](#)
| [discovery](#)
2015
📍 New South Wales, Australia

Master of Philosophy

2014 University of Sydney - thesis title: [Design, synthesis and testing of novel anti-cancer agents targeting](#)
| [secretary pathway calcium ATPase](#)
2012
📍 New South Wales, Australia

Bachelor of Pharmacy

2006
| University of Otago
2003 📍 Otago, New Zealand

Publications

[Discovery of 2',6-Bis\(4-hydroxybenzyl\)-2-acetylcyclohexanone, a Novel FtsZ Inhibitor](#)

2022 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)

[A novel class of thiosemicarbazones show multi-functional activity for the treatment of Alzheimer's disease](#)

2017 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)

[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
2016
📍 Future Med Chem. 2016; 8(10):1111-32. (IF = 3.969)
