

Weisi Chen

Data Scientist

Kensington, NSW 2033, Australia

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github.com/WeisiChen1995

Profile

I am a highly disciplined and hard-working individual professional with a strong passion for technology, programming, data analysis, data visualization, and statistical modeling.

Leveraging a unique blend of training in pharmacy and health data science,

I specialize in deriving actionable insights from complex health datasets.

I am proficient in statistical software such as R and SAS, and have extensive experience using these tools for data analysis, visualization, and statistical modelling.

I am deeply committed to continuous learning and professional development, always eager to explore new packages, techniques, or skills that can enhance my ability to analyze data effectively and deliver meaningful insights.

My current interest lies in population-level analysis using linked health data to drive impactful health decisions and inform evidence-based strategies.

I thrive on tackling challenging problems with analytical precision and creativity, always striving to deliver impactful results in every project I undertake.

Education

Sept 2021 - March 2023 University of New South Wales M.S. Health Data Science

WAM: 88%

Dissertation: Changes in atherosclerotic cardiovascular disease risk over time among people living with HIV

March 2015 - March 2019 University of Sydney B.S. Pharmacy

Employment History

July 2023 - Present University of New South Wales, Sydney, NSW

Data Scientist, School of Population Health

I contributed to two projects in this role:

- 1) ACCESS: Aboriginal Community Controlled Ear Health Support System:
Developing, embedding, and evaluating best practice models of care.
- 2) Evaluation of Sustaining NSW Families, NSW Health.

My role included:

- Critically reviewed the literature on epidemiological and statistical methods to inform the development of analysis plans.
- Drafted data management and data analysis plans, with input from the research team.
- Implemented the data management plan to prepare analysis-ready datasets from linked datasets, including data cleaning and manipulation, using software R and SAS.

- Executed statistical analysis of linked data, with academic supervision, using statistical packages R and SAS.
- Drafted scientific papers, protocols and conference abstracts, with academic supervision.
- Contributed to the project management of research projects to the highest scientific and ethical standards.
- Drafted applications and contribute to ongoing reporting to the relevant ethics committees and data custodians for research projects.
- Maintained regular communication with project investigators and Aboriginal community organizations to ensure the program is delivered in a culturally appropriate manner.

Feb 2023 - Dec 2023 **The University of Sydney**, Sydney, NSW
Data Scientist/Research Officer, School of Pharmacy

Publications

[Google Scholar Profile](#)

Peer-reviewed Journal Articles

1. Huynh, A. L. H., Wang, Y., Ma, L., Low, Y. L. C., **Chen, W.**, Fowler, C., Tan, E. C., Masters, C. L., Jin, L., & Pan, Y. (2024) "A comparison of an Australian observational longitudinal Alzheimer's Disease cohort to Community-Based Australian data." *Journal of Alzheimer S Disease*. 1–13. DOI: [10.3233/JAD-240241](#)
2. Lau, E. C., **Chen, W.**, Lu, C. Y., Hilmer, S. N., Jeon, Y., & Tan, E. C (2024) "Antidementia and psychotropic drug use in older people with dementia in Australia: a national data linkage study" *Journal of the American Medical Directors Association*. 25 (11), 105237. DOI: [10.1016/j.jamda.2024.105237](#)
3. **Chen, W.**, Petoumenos, K., Somia, A., Edmiston, N., Chaiwarith, R., Woolley, I., Ross, J., Pujari, S., Boettiger, D. C. (2024) "Changes in atherosclerotic cardiovascular disease risk over time among people living with HIV" *Journal of Antimicrobial Chemotherapy*. 79(4), 897–902. DOI: [10.1093/jac/dkae049](#)