

Kevin Wang Ph.D.

Data Scientist and Statistician

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🌐 Portfolio: kevinwangstats.com

Nationality: Australian

Experience

Now **Senior Data Scientist, Illumina**

- 2021 Nov
- Lead the development of comprehensive bioinformatics strategies for two innovative, in vitro diagnostic (IVD)-marked cancer diagnostic products, resulting in a significant reduction in development time and cost.
 - Collaborated with a diverse team of internal and external stakeholders, including regulatory bodies and pharmaceutical partners, to ensure the success of projects.
 - Research and develop cutting-edge machine learning algorithms to enhance product performance using high-throughput genomics data for both non-invasive prenatal testing (NIPT) and oncology applications.
 - Write robust, production-quality implementations of bioinformatics tools and software.

2021 Oct **Statistician, CSL Behring**

- 2020 Jul
- Used statistical process control techniques to standardise manufacturing and quality control laboratory procedures with engineers and biochemists.
 - Designing experiments and using innovative machine learning models and R-Shiny dashboards to understand the chemical stability of products, conform to regulatory requirements and ensure product effectiveness.
 - Contributed towards high-value products like COVID vaccines and treatments, achieved savings of multiple batches of plasma products, with some batches valued up to \$1M.

2020 Jun **Research Associate, University of Sydney**

- 2019 Sep
- Developed and validated an interpretable machine learning framework for predicting cancer patient clinical outcome using transcriptomics data.
 - Published peer-reviewed articles in top-tier journals together with reproducible softwares.

2019 Mar **Postgraduate Teaching Fellow, University of Sydney**

- 2016 Mar
- Delivered lectures (200+ students) and tutorials covering 15 different courses. Authored and improved existing course contents.
 - Mentored and trained new statistics tutors.

Education

2016–2020 **Doctor of Philosophy in Statistical Bioinformatics, University of Sydney**

Thesis: A Statistical Framework for Incorporating Multi-Omics Technologies for Precision Medicine

2012–2015 **Bachelor of Science (Adv. Mathematics) (Hon. I), University of Sydney**

Thesis: Examination of Appropriate Measures of Association in Resting-state fMRI Datasets

Miscellaneous

Skills Applied statistics, statistical modelling, bioinformatics, machine learning, python, R, git, docker, software development, research and product development.

Volunteering Served as the Communication Officer in the Statistical Society of Australia, NSW branch (2022) and the Victorian branch (2021). Managing member communications, website and social media accounts. Organised events and workshop for the society.

Scholarships JB Douglas Award (2019) from Statistical Society of Australia NSW. Golden Jubilee Travel Grant (2019) from Statistical Society of Australia. Best Student Talk from International Biometric Society - Australasian Region. Australian Postgraduate Award (2016–2020) from the University of Sydney.